Four families of numbers

OK now there are nineteen families of numbers with the first four families forms a larger family of families this expanded family which many go on forever. Now there is a second and third family of families. I have carried out the first five terms for the next six families after these four groups and it worked correctly also. Most of these series came from the prime factoring of (10^n-1)/9 which can be found at “stdkmd.com/nrr/repunit”. Most of the numbers in these families are not primes, and many have a small factor like of 7 or 19. Here is a sample of the first 10 solution of seven families of numbers. So far I have found nineteen families of number sequences using with the all have mostly using 0’s and 9’s. I have removed all the 0’s and 9’s and very little is left. Looking at the last pages with the 11, 111 and 1111 etc through the single digit and 9, 99, 999 and 9999 etc all have a single number family. Most of the numbers are not prime numbers while only a few are. I have found the following numbers to be prime, most family do have some prime numbers; from all of the families they are; 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 101, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 9091, 9901, 909091, 99990001, 999999000001, 9999999900000001, 909090909090909091, 1111111111111111111, 900900900900990990990991, 909090909090909090909090909091, 100009999999899989999000000010001, 10000099999999989999989999990000000000100001, 909090909090909090909090909090909090909090909091, 900900900900900900900900900900990990990990990990990990991, 909090909090909090909090909090909090909090909090909090909090909091, 99999999999999000000000000000999999999999999000000000000000999999999999999000000000000001, 99999999999999999999999999999999999000000000000000000000000000000000000000000000000000000999999999999999999999999999999999999000000000000000000000000000000000000000000000000001.

This is the first family of numbers, to create them start with 91 and placing a 90 in the middle which creates 9<u>90</u>1 the next time place another 90 in the middle creating 99<u>90</u>01, see below. The increment of each number’s repeating digits is 6 extra digits. The numbers on both sides of the equal sign are mostly 0’s and 9’s with a 1 on each side and an 8 on the right only. See “mathforum.org/kb/message.jspa?messageID=1618748” someone has tested up to 728 and no more prime number

1/91=0.{010989} {6 repeating digits in brackets}
1/9901=0.{000100999899} {12 repeating digits in brackets}
1/999001=0.{000001000999998999} {18 repeating digits in brackets}
1/99990001=0.{000000010000999999989999} {24 repeating digits in brackets}
1/9999900001=0.{000000000100000999999999899999} {30 repeating digits in brackets}
1/999999000001=0.{000000000001000000999999999998999999} {36 repeating digits in brackets}
1/99999990000001=0.{000000000000010000000999999999999989999999} {42 repeating digits in brackets}
1/9999999900000001=0.{000000000000000100000000999999999999999899999999} {48 repeating digits in brackets}
1/999999999000000001=0.{000000000000000001000000000999999999999999998999999999} {54 repeating digits in brackets}
1/99999999990000000001=0.{000000000000000000010000000000999999999999999999999989999999999} {60 repeating digits in brackets}

This is the second family of numbers to create them start with 9091 and placing extra 90 after each of the 9’s group which creates 9<u>90</u>09<u>90</u>1 the next time placing extra 90 after each of the

9’s group which creates 999000999001, see below. The increment of each number’s repeating digits is 10 extra digits. The numbers on both sides of the equal sign are mostly 0’s and 9’s with a 1 and an 8 on the right.

1/9091=0.{0001099989} { 10 repeating digits in brackets}
1/99009901=0.{00000001009999999899} { 20 repeating digits in brackets}
1/999000999001=0.{000000000001000999999999998999} { 30 repeating digits in brackets}
1/9999000099990001=0.{0000000000000001000099999999999999989999} { 40 repeating digits in brackets}
1/99999000009999900001=0.{00000000000000000001000009999999999999999999899999} { 50 repeating digits in brackets}
1/999999000000999999000001=0.{000000000000000000000001000000999999999999999999999998999999} { 60 repeating digits in brackets}
1/9999999000000099999990000001=0.{0000000000000000000000000001000000099999999999999999999999999989999999} { 70 repeating digits in brackets}
1/99999999000000009999999900000001=0.{00000000000000000000000000000001000000009999999999999999999999999999999899999999} { 80 repeating digits in brackets}
1/9999999990000000009999999990000000001=0.{000000000000000000000000000000000001000000000999999999999999999999999999999999998999999999} { 90 repeating digits in brackets}
1/99999999990000000000999999999900000000001=0.{0000000000000000000000000000000000000001000000000099999999999999999999999999999999999999989999999999} { 100 repeating digits in brackets}

This is the third family of numbers to create them start with 909091 and placing extra 90 after each of the 9’s group which creates 990099009901 the next time placing extra 90 after each of the 9’s group which creates 999000999000999001, see below. The increment of each number’s repeating digits is 14 extra digits. The numbers on both sides of the equal sign are mostly 0’s and 9’s with a 1 and an 8 on the right.

1/909091=0.{00000109999989} { 14 repeating digits in brackets}
1/990099009901=0.{0000000000010099999999999899} { 28 repeating digits in brackets}
1/999000999000999001=0.{000000000000000001000999999999999999998999} { 42 repeating digits in brackets}
1/9999000099990000999900001=0.{00000000000000000000000100009999999999999999999999989999} { 56 repeating digits in brackets}
1/999990000099999000009999900001=0.{0000000000000000000000000000010000099999999999999999999999999999899999} { 70 repeating digits in brackets}
1/999999000000999999000000999999000001=0.{000000000000000000000000000000000001000000999999999999999999999999999999999998999999} { 84 repeating digits in brackets}
1/999999900000009999999000000099999990000001=0.{00000000000000000000000000000000000000000100000009999999999999999999999999999999999999999989999999} { 98 repeating digits in brackets}
1/99999999000000009999999900000000999999990000001=0.{0000000000000000000000000000000000000000000000010000000099999999999999999999999999999999999999999999999899999999} { 112 repeating digits in brackets}
1/999999999000000000999999999000000000999999999000000001=0.{000000000000000000000000000000000000000000000000000001000000000999999999999999999999999999999999999999999999999999998999999999} { 126 repeating digits in brackets}
1/9999999999000000000099999999990000000000999999999900000000001=0.{00000000000000000000000000000000000000000000000000000000000100000000009999999999999999999999999999999999999999999999999999999999989999999999} { 140 repeating digits in brackets}

This is the fourth family of numbers to create them start with 90909091 and placing extra 90 after each of the 9’s group which creates 9900990099009901 the next time placing extra 90 after each of the 9’s group which creates 999000999000999000999001, see below. The

increment of each number's repeating digits is 18 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/90909091=0.{000000010999999989} { 18 repeating digits in brackets}
1/9900990099009901=0.{000000000000000100999999999999999899} { 36 repeating digits in brackets}
1/999000999000999000999001=0.{000000000000000000000001000999999999999999999999998999} { 54 repeating digits in brackets}
1/99990000999900009999000099990001=0.{000000000000000000000000000000010000999999999999999999999999999999989999} { 72 repeating digits in brackets}
1/9999900000999990000099999000009999900001=0.{000000000000000000000000000000000000000100000999999999999999999999999999999999999999899999} { 90 repeating digits in brackets}
1/999999000000999999000000999999000000999999000001=0.{000000000000000000000000000000000000000000000001000000999999999999999999999999999999999999999999999998999999} { 108 repeating digits in brackets}
1/99999990000000999999900000009999999000000099999990000001=0.{000000000000000000000000000000000000000000000000000000010000000999999999999999999999999999999999999999999999999999999989999999} { 126 repeating digits in brackets}
1/9999999900000000999999990000000099999999000000009999999900000001=0.{000000000000000000000000000000000000000000000000000000000000000100000000999999999999999999999999999999999999999999999999999999999999999899999999} { 144 repeating digits in brackets}
1/999999999000000000999999999000000000999999999000000000999999999000000001=0.{000000000000000000000000000000000000000000000000000000000000000000000001000000000999999999999999999999999999999999999999999999999999999999999999999999998999999999} { 162 repeating digits in brackets}
1/99999999990000000000999999999900000000009999999999000000000099999999990000000001=0.{000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000999999999999999999999999999999999999999999999999999999999999999999999999999999989999999999} { 180 repeating digits in brackets}

This is the fifth family of numbers to create them start with 91 and placing a 09 before the 1 which creates 9<u>09</u>1 the next time place another 09 before the 1 creating 909<u>09</u>1, see below. The increment of each number's repeating digits is 4 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/91=0.{010989} {6 repeating digits in brackets}
1/9091=0.{0001099989} {10 repeating digits in brackets}
1/909091=0.{00000109999989} {14 repeating digits in brackets}
1/90909091=0.{000000010999999989} {18 repeating digits in brackets}
1/9090909091=0.{0000000001099999999989} {22 repeating digits in brackets}
1/909090909091=0.{00000000000109999999999989} {26 repeating digits in brackets}
1/90909090909091=0.{000000000000010999999999999989} {30 repeating digits in brackets}
1/9090909090909091=0.{0000000000000001099999999999999989} {34 repeating digits in brackets}
1/909090909090909091=0.{00000000000000000109999999999999999989} {38 repeating digits in brackets}
1/90909090909090909091=0.{000000000000000000010999999999999999999989} {42 repeating digits in brackets}

This is the sixth family of numbers to create them start with 900991 and placing a 900990 in the middle which creates 900<u>900990</u>991 the next time place another 900990 in the middle creating 900900<u>900990</u>990991, see below. The increment of each number's repeating digits is 9 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 on the left and two 1's and two 8's on the right.

1/900991=0.{000001109889} { 12 repeating digits in brackets}
1/900900990991=0.{000000000001109999889} { 21 repeating digits in brackets}
1/900900900990990991=0.{000000000000000001109999999889} { 30 repeating digits in brackets}
1/900900900900990990990991=0.{000000000000000000000001109999999999889} { 39 repeating digits in brackets}
1/900900900900900990990990990991=0.{000000000000000000000000000001109999999999999889} { 48 repeating digits in brackets}

1/900900900900900990990990990991=0.
{00000000000000000000000000000000000110999999999999999889} { 57 repeating digits in brackets}
1/900900900900900900990990990990990991=0.
{00000000000000000000000000000000000000000110999999999999999999889} { 66 repeating digits in brackets}
1/900900900900900900900990990990990990990991=0.
{00000000000000000000000000000000000000000000000110999999999999999999999889} { 75 repeating digits in brackets}
1/900900900900900900900900990990990990990990990991=0.
{00000000000000000000000000000000000000000000000000000110999999999999999999999999889} { 84 repeating digits in brackets}
1/900900900900900900900900900990990990990990990990990991=0.
{00000000000000000000000000000000000000000000000000000000000110999999999999999999999999999889}
{ 93 repeating digits in brackets}

This is the seventh family of numbers to create them start with 10099989899000101 and placing extra digits at different places which creates 1000999998998999000001001 the next time placing extra digits at different places which creates 100009999999899989999000000010001, see below. The increment of each number's repeating digits is 30 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a three 1's and two 8's and a 1 and two 8's on the right.

1/10099989899000101=0.{000000000000000099010000009900999999999999999990098999990099} { 60 repeating digits in brackets
1/1000999998998999000001001=0.
{000000000000000000000000999001000000000099900099999999999999999999999990009989999999990009999} { 90 repeating digits in brackets
1/100009999999899989999000000010001=0.
{000000000000000000000000000000009999000100000000000000999900009999999999999999999999999999900009998999999999999900009999} { 120 repeating digits in brackets
1/10000099999999989999899999000000000100001=0.
{000000000000000000000000000000000000000099999000010000000000000000009999900000999999999999999999999999999999999990000099998999999999999999990000099999} { 150 repeating digits in brackets
1/1000000999999999998999998999999000000000001000001=0.
{000000000000000000000000000000000000000000000000999999000001000000000000000000000099999900000099999999999999999999999999999999999999999990000009999989999999999999999999990000009999999} { 180 repeating digits in brackets
1/10000000999999999999989999998999999900000000000001000000 1=0.
{000000000000000000000000000000000000000000000000000000009999999000000100000000000000000000000000999999900000009999999999999999999999999999999999999999999999999000000099999989999999999999999999999999900000009999999} { 210 repeating digits in brackets
1/1000000009999999999999998999999989999999900000000000000010000000 1=0.
{000000000000000000000000000000000000000000000000000000000000000099999999000000010000000000000000000000000000009999999900000000999999999999999999999999999999999999999999999999999999900000000999999989999999999999999999999999999000000009999999} { 240 repeating digits in brackets
1/10000000009999999999999999899999999899999999900000000000000000100000000 1=0.
{00000000000000000000000000000000000000000000000000000000000000000000000099999999900000000100000000000000000000000000000000009999999990000000009999999999999999999999999999999999999999999999999999999999900000000099999999899999999999999999999999999999999000000000999999999} { 270 repeating digits in brackets
1/100000000009999999999999999999899999999989999999999000000000000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999000000000100000000000000000000000000000000000000009999999999000000000099999999999999999999999999999999999999999999999999999999999999999000000000099999999989999999999999999999999999999999999990000000000999999999} { 300 repeating digits in brackets
1/10000000000099999999999999999999899999999998999999999990000000000000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999000000000010000000000000000000000000000000000000000000099999999999000000000009999999999999999999999999999999999999999999999999999999999999999999999900000000000999999999989999999999999999999999999999999999999999900000000000999999999999} { 330 repeating digits in brackets

This is the first family of numbers, to create them start with 91 and placing a 90 in the middle which creates 9901 the next time place another 90 in the middle creating 999001, see below. The increment of each number's repeating digits is 6 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 on each side and an 8 on the right only. See "mathforum.org/kb/message.jspa?messageID=1618748" someone has tested up to 728 and no more prime number

1/91=0.{010989} {6 repeating digits in brackets}
1/9901=0.{000100999899} {12 repeating digits in brackets}
1/999001=0.{000001000999998999} {18 repeating digits in brackets}
1/99990001=0.{000000010000999999989999} {24 repeating digits in brackets}
1/9999900001=0.{000000000100000999999999899999} {30 repeating digits in brackets}
1/999999000001=0.{000000000001000000999999999998999999} {36 repeating digits in brackets}
1/99999990000001=0.{000000000000010000000999999999999989999999} {42 repeating digits in brackets}
1/9999999900000001=0.{000000000000000100000000999999999999999899999999} {48 repeating digits in brackets}
1/999999999000000001=0.{000000000000000001000000000999999999999999998999999999} {54 repeating digits in brackets}
1/99999999990000000001=0.{000000000000000000010000000000999999999999999999989999999999} {60 repeating digits in brackets}
1/999999999990000000001=0.{000000000000000000000100000000000999999999999999999999899999999999} {66 repeating digits in brackets}
1/99999999999900000000001=0.{000000000000000000000001000000000000999999999999999999999998999999999999} {72 repeating digits in brackets}
1/9999999999999000000000001=0.{000000000000000000000000010000000000000999999999999999999999999989999999999999} {78 repeating digits in brackets}
1/999999999999990000000000001=0.{000000000000000000000000000100000000000000999999999999999999999999999899999999999999} {84 repeating digits in brackets}
1/99999999999999900000000000001=0.{000000000000000000000000000001000000000000000999999999999999999999999999998999999999999999} {90 repeating digits in brackets}
1/9999999999999999000000000000001=0.{000000000000000000000000000000010000000000000000999999999999999999999999999999989999999999999999} {96 repeating digits in brackets}
1/999999999999999990000000000000001=0.{000000000000000000000000000000000100000000000000000999999999999999999999999999999999899999999999999999} {102 repeating digits in brackets}
1/99999999999999999900000000000000001=0.{000000000000000000000000000000000001000000000000000000999999999999999999999999999999999998999999999999999999} {108 repeating digits in brackets}
1/9999999999999999999000000000000000001=0.{000000000000000000000000000000000000010000000000000000000999999999999999999999999999999999999989999999999999999999} {114 repeating digits in brackets}
1/999999999999999999990000000000000000001=0.{000000000000000000000000000000000000000100000000000000000000999999999999999999999999999999999999999899999999999999999999} {120 repeating digits in brackets}
1/99999999999999999999900000000000000000001=0.{000000000000000000000000000000000000000001000000000000000000000999999999999999999999999999999999999999998999999999999999999999} {126 repeating digits in brackets}
1/9999999999999999999999000000000000000000001=0.{000000000000000000000000000000000000000000010000000000000000000000999999999999999999999999999999999999999999989999999999999999999999} {132 repeating digits in brackets}
1/999999999999999999999990000000000000000000001=0.{000000000000000000000000000000000000000000000100000000000000000000000999999999999999999999999999999999999999999999899999999999999999999999} {138 repeating digits in brackets}
1/99999999999999999999999900000000000000000000001=0.{000000000000000000000000000000000000000000000001000000000000000000000000999999999999999999999999999999999999999999999998999999999999999999999999} {144 repeating digits in brackets}

1/9999999999999999999999999000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000100000000000000000000000009999999999999999999999
9999999999999999999999999999899999999999999999999999999} {150 repeating digits in brackets}
1/99999999999999999999999999000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000001000000000000000000000000000999999999999999999
99999999999999999999999999999999989999999999999999999999999999} {156 repeating digits in brackets}
1/999999999999999999999999999000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000010000000000000000000000000000999999999999999
99999999999999999999999999999999999999899999999999999999999999999999} {162 repeating digits in brackets}
1/9999999999999999999999999999000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000100000000000000000000000000000999999999999
9999999999999999999999999999999999999999999899999999999999999999999999999999} {168 repeating digits in
brackets}
1/99999999999999999999999999999000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000001000000000000000000000000000000999999999
999999999999999999999999999999999999999999999999899999999999999999999999999999999} {174 repeating digits
in brackets}
1/999999999999999999999999999999000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000999999
99999999999999999999999999999999999999999999999999999899999999999999999999999999999999} {180 repeating
digits in brackets}
1/9999999999999999999999999999999000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000999
9999999999999999999999999999999999999999999999999999999999899999999999999999999999999999999} {186
repeating digits in brackets}
1/99999999999999999999999999999999000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000
999999999999999999999999999999999999999999999999999999999999999899999999999999999999999999999999}
{192 repeating digits in brackets}
1/999999999999999999999999999999999000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000
0009999999999999999999999999999999999999999999999999999999999999999899999999999999999999999999999
99999} {198 repeating digits in brackets}
1/9999999999999999999999999999999999000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000
0000009999999999999999999999999999999999999999999999999999999999999999999899999999999999999999999
99999999999} {204 repeating digits in brackets}
1/99999999999999999999999999999999999000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000
0000000009999999999999999999999999999999999999999999999999999999999999999999999899999999999999999
99999999999999999} {210 repeating digits in brackets}
1/999999999999999999999999999999999999000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000
0000000000009999999999999999999999999999999999999999999999999999999999999999999999999899999999999
99999999999999999999999} {216 repeating digits in brackets}
1/9999999999999999999999999999999999999000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000
0000000000000009999999999999999999999999999999999999999999999999999999999999999999999999999899999999
99999999999999999999999999999} {222 repeating digits in brackets}
1/99999999999999999999999999999999999999000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000
0000000000000000009999999999999999999999999999999999999999999999999999999999999999999999999999998999
99999999999999999999999999999999999} {228 repeating digits in brackets}
1/999999999999999999999999999999999999999000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000
0000000000000000000009999999999999999999999999999999999999999999999999999999999999999999999999999
989999999999999999999999999999999999999999} {234 repeating digits in brackets}
1/9999999999999999999999999999999999999999000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000
0000000000000000000000009999999999999999999999999999999999999999999999999999999999999999999999999
9999998999999999999999999999999999999999999999} {240 repeating digits in brackets}
1/99999999999999999999999999999999999999999000000000000000000000000000000000000000001=0.

{000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000
0000000000000000000000000009999999999999999999999999999999999999999999999999999999999999999999999
99999999999899999999999999999999999999999999999999999} {246 repeating digits in brackets}
1/99999999999999999999999999999999999999999000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000
0000000000000000000000000000009999999999999999999999999999999999999999999999999999999999999999999
99999999999999998999999999999999999999999999999999999999999} {252 repeating digits in brackets}
1/999999999999999999999999999999999999999999000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000
0000000000000000000000000000000009999999999999999999999999999999999999999999999999999999999999999
999999999999999999999899999999999999999999999999999999999999999999} {258 repeating digits in brackets}
1/9999999999999999999999999999999999999999999000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000
0000000000000000000000000000000000009999999999999999999999999999999999999999999999999999999999999
99999999999999999999999999899999999999999999999999999999999999999999999} {264 repeating digits in
brackets}
1/99999999999999999999999999999999999999999999000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000
0000000000000000000000000000000000000009999999999999999999999999999999999999999999999999999999999
99999999999999999999999999999998999999999999999999999999999999999999999999999} {270 repeating digits in
brackets}
1/999999999999999999999999999999999999999999999000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000
0000000000000000000000000000000000000000009999999999999999999999999999999999999999999999999999999
99999999999999999999999999999999999899999999999999999999999999999999999999999999999} {276 repeating
digits in brackets}
1/99999999999999999999999999999999999999999999990000000000000000000000000000000000000000000001=
0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100
0000000000000000000000000000000000000000000009999999999999999999999999999999999999999999999999999
99999999999999999999999999999999999999999899999999999999999999999999999999999999999999999} {282
repeating digits in brackets}
1/999999999999999999999999999999999999999999999990000000000000000000000000000000000000000000000
1=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
0000000000000000000000000000000000000000000000009999999999999999999999999999999999999999999999999
99999999999999999999999999999999999999999999989999999999999999999999999999999999999999999999999}
{288 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999000000000000000000000000000000000000000000000
001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0100000000000000000000000000000000000000000000000009999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999998999999999999999999999999999999999999999999999
9999} {294 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999900000000000000000000000000000000000000000000
00001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0001000000000000000000000000000000000000000000000000009999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999899999999999999999999999999999999999999999
9999999999} {300 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999990000000000000000000000000000000000000000000
0000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000010000000000000000000000000000000000000000000000000009999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999899999999999999999999999999999999999
9999999999999999} {306 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999000000000000000000000000000000000000000000
000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000100000000000000000000000000000000000000000000000000009999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999998999999999999999999999999999999
9999999999999999999999} {312 repeating digits in brackets}

1/9999999999999999999999999999999999999999999999999999900000000000000000000000000000000000000000000
00000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000001000000000000000000000000000000000000000000000009999999999999999999999999999999999
99999999999999999999999999999999999999999999999999999999999999999999999899999999999999999999999999
9999999999999999999999999999} {318 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999990000000000000000000000000000000000000000000
0000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000010000000000000000000000000000000000000000000000000000009999999999999999999999999999999
99999999999999999999999999999999999999999999999999999999999999999999999999999899999999999999999999
9999999999999999999999999999999999} {324 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999000000000000000000000000000000000000000000
000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000100000000000000000000000000000000000000000000000000000000999999999999999999999999999
99999999999999999999999999999999999999999999999999999999999999999999999999999999999899999999999999
9999999999999999999999999999999999999999} {330 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999900000000000000000000000000000000000000000
00000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000001000000000000000000000000000000000000000000000000000000000099999999999999999999999
99999999999999999999999999999999999999999999999999999999999999999999999999999999999999989999999999
9999999999999999999999999999999999999999999999} {336 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999990000000000000000000000000000000000000000
0000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000010000000000000000000000000000000000000000000000000000000000009999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999899999
9999999999999999999999999999999999999999999999999999} {342 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999000000000000000000000000000000000000000
000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000100000000000000000000000000000000000000000000000000000000000009999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999998
9999999999999999999999999999999999999999999999999999999999} {348 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999900000000000000000000000000000000000000
00000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000100000000000000000000000000000000000000000000000000000000000009999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99998999999999999999999999999999999999999999999999999999999999} {354 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999990000000000000000000000000000000000000
0000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001000000000000000000000000000000000000000000000000000000000000009999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99999999989999999999999999999999999999999999999999999999999999999999} {360 repeating digits in
brackets}
1/9999999999999999999999999999999999999999999999999999999999999000000000000000000000000000000000000
000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000010000000000000000000000000000000000000000000000000000000000000009999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999998999999999999999999999999999999999999999999999999999999999999} {366 repeating digits in
brackets}
1/9999999999999999999999999999999999999999999999999999999999999900000000000000000000000000000000000
00000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000009999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99999999999999999989999999999999999999999999999999999999999999999999999999999999} {372 repeating

digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999000000000000000000000000000000000
0000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000009999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999998999999999999999999999999999999999999999999999999999999999999999} {378
repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999900000000000000000000000000000000
000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000009
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999989999999999999999999999999999999999999999999999999999999999999999}
{384 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999990000000000000000000000000000000
00000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000
0099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999899999999999999999999999999999999999999999999999999999999999999
999} {390 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999000000000000000000000000000000
0000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000
0000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999998999999999999999999999999999999999999999999999999999999999
999999999} {396 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999900000000000000000000000000000
000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000
0000000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999899999999999999999999999999999999999999999999999999999
999999999999999} {402 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999990000000000000000000000000000
00000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000
0000000000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999899999999999999999999999999999999999999999999999
999999999999999999999} {408 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999000000000000000000000000000
0000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000
0000000000000099999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999998999999999999999999999999999999999999999999
999999999999999999999999999} {414 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999900000000000000000000000000
000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000
0000000000000000099999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999989999999999999999999999999999999999999
999999999999999999999999999999999} {420 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999990000000000000000000000000
00000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000
0000000000000000000099999999999999999999999999999999999999999999999999999999999999999999999999999

9999999999999999999999999999999999999999999999999999999999999999899999999999999999999999999999999
999999999999999999999999999999999999999} {426 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999900000000000000000000000
0000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000
0000000000000000000000099999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999899999999999999999999999999
999999999999999999999999999999999999999999999} {432 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999000000000000000000000
00000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000
0000000000000000000000000099999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999989999999999999999999999
999999999999999999999999999999999999999999999999999} {438 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999900000000000000000000
0000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000
0000000000000000000000000000099999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999899999999999999999
999999999999999999999999999999999999999999999999999999999} {444 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999990000000000000000000
000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000
0000000000000000000000000000000099999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999989999999999
99
999999999999999999999999999999999999999999999999999999999999999} {450 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999000000000000000000
00000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000
0000000000000000000000000000000000099999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989999999
999999999999999999999999999999999999999999999999999999999999999999999} {456 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999900000000000000000
0000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000
0000000000000000000000000000000000000099999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999899
999999999999999999999999999999999999999999999999999999999999999999999999999} {462 repeating digits in
brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999990000000000000000
000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000
0000000000000000000000000000000000000000099999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
998999999999999999999999999999999999999999999999999999999999999999999999999999999} {468 repeating
digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999000000000000000
00000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000
0000000000000000000000000000000000000000000099999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999899999999999999999999999999999999999999999999999999999999999999999999999999999999} {474
repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999900000000000000

0000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999998999999999999999999999999999999999999999999999999999999999999999999999999999999999999}
{480 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999999999000000000000
0000000000000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999989999999999999999999999999999999999999999999999999999999999999999999999999999999
99} {486 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999999999900000000000
0000000000000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999989999999999999999999999999999999999999999999999999999999999999999999999999
99999999} {492 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999999999900000000000
0000000000000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999998999999999999999999999999999999999999999999999999999999999999999999999999
99999999999999} {498 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999999999900000000000
0000000000000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999998999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999} {504 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999999999900000000000
0000000000000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999998999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999} {510 repeating digits in brackets}
1/9999999999999999999999999999999999999999999999999999999999999999999999999999999999999900000000000
0000000000000000000000000000000000000000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000
0000000000000000000000000000000000000000000000000999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999989999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999

99999999999999999999999999999999999999} {522 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999990000000
000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000099999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999899999999999999999999999999999999999999999999
99999999999999999999999999999999999999999999} {528 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999998999999999999999999999999999999999999999
99999999999999999999999999999999999999999999999999} {534 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999900000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999989999999999999999999999999999999999
99999999999999999999999999999999999999999999999999999999} {540 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999990000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999899999999999999999999999999999
99999999999999999999999999999999999999999999999999999999999999} {546 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999000
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999989999999999999999999999999
99999999999999999999999999999999999999999999999999999999999999999999} {552 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999900
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999989999999999999999999
99999999999999999999999999999999999999999999999999999999999999999999999999} {558 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999990
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999899999999999999
99999999999999999999999999999999999999999999999999999999999999999999999999999999} {564 repeating digits in brackets}
1/99999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001=0
.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999998999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999} {570
repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
900000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999} {576
repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
990000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
01=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
1000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
8999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9} {582 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999989999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999} {588 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999900000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999998999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999} {594 repeating digits in brackets}
1/999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999900000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999998999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999} {600 repeating digits in brackets}

This is the second family of numbers to create them start with 909091 and placing extra 90 after each of the 9's group which creates 99<u>00</u>99<u>0</u>1 the next time placing extra 90 after each of the 9's group which creates 999<u>0</u>0099<u>9</u>0<u>0</u>1, see below. The increment of each number's repeating digits is 10 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/9091=0.{0001099989} { 10 repeating digits in brackets}
1/99009901=0.{00000001009999999899} { 20 repeating digits in brackets}
1/999000999001=0.{000000000001000999999999998999} { 30 repeating digits in brackets}
1/9999000099990001=0.{0000000000000001000099999999999999989999} { 40 repeating digits in brackets}
1/99999000009999900001=0.{00000000000000000001000009999999999999999999899999} { 50 repeating digits in brackets}
1/999999000000999999000001=0.{000000000000000000000001000000999999999999999999999998999999} { 60 repeating digits in brackets}
1/9999999000000099999990000001=0.
{0000000000000000000000000001000000009999999999999999999999999989999999} { 70 repeating digits in brackets}
1/99999999000000009999999900000001=0.
{00000000000000000000000000000001000000009999999999999999999999999999899999999} { 80 repeating digits in brackets}
1/999999999000000000999999999000000001=0.
{000000000000000000000000000000000001000000000999999999999999999999999999999999998999999999} { 90 repeating digits in brackets}
1/9999999999000000000999999999990000000001=0.
{0000000000000000000000000000000000000001000000000099999999999999999999999999999999999999998999999999} { 100 repeating digits in brackets}
1/99999999999000000000099999999999900000000001=0.
{00000000000000000000000000000000000000000001000000000009999999999999999999999999999999999999999999999999999} { 110 repeating digits in brackets}
1/999999999999000000000009999999999999900000000001=0.
{000000000000000000000000000000000000000000000001000000000000999999999999999999999999999999999999999999999999999999999999999} { 120 repeating digits in brackets}
1/9999999999999000000000000999999999999999900000000000001=0.
{0000000000000000000000000000000000000000000000000000010000000000000999999999999999999999999999999999999999999999999999999999999999999999999999999} { 130 repeating digits in brackets}
1/99999999999999000000000000099999999999999999900000000000001=0.
{00000000000000000000000000000000000000000000000000000000100000000000000999999999999999999999999999999999999999999999999999999999

1/99999999999999999999900000000000000000000999999999999999999999000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000
0000000009999999999999999999999999999999999999999999999999999999999999999999999999999999999999989999
99999999999999999} { 210 repeating digits in brackets}
1/99999999999999999999900000000000000000000009999999999999999999999000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000
0000000000000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999989999999999999999999999999} { 220 repeating digits in brackets}
1/99999999999999999999900000000000000000000009999999999999999999999000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000
0000000000000000000999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999989999999999999999999999999} { 230 repeating digits in brackets}
1/99999999999999999999900000000000000000000009999999999999999999999000000000000000000000000
1=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
0000000000000000000000000999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999989999999999999999999999999} { 240 repeating digits in brackets}
1/99999999999999999999900000000000000000000009999999999999999999999000000000000000000000000
00001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0001000000000000000000000000999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999989999999999999999999999999} { 250 repeating digits in brackets}
1/99999999999999999999900000000000000000000009999999999999999999999000000000000000000000000
000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000100000000000000000000000000999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999989999999999999999999999999999999} { 260 repeating digits in brackets}
1/99999999999999999999900000000000000000000009999999999999999999999000000000000000000000000
0000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000010000000000000000000000000000999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999

9999999999999999999999999999} { 320 repeating digits in brackets}
1/9999999999999999999999999999999999000000000000000000000000000000000999999999999999999999999999999
999900000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001000000000000000000000000000000000999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999998999999999999999999999999999999999} { 330 repeating digits in brackets}
1/9999999999999999999999999999999999000000000000000000000000000000000999999999999999999999999999999
999999900000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001000000000000000000000000000000999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999898999999999999999999999999999999999999} { 340 repeating digits in brackets}
1/9999999999999999999999999999999999000000000000000000000000000000000999999999999999999999999999999
999999999900000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001000000000000000000000000000000999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999998999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999

This is the third family of numbers to create them start with 909091 and placing extra 90 after each of the 9's group which creates 9<u>90</u>099<u>90</u>09<u>90</u>1 the next time placing extra 90 after each of the 9's group which creates 99<u>90</u>0099<u>90</u>0099<u>90</u>01, see below. The increment of each number's repeating digits is 14 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/909091=0.{00000109999989} { 14 repeating digits in brackets}
1/990099009901=0.{0000000000010099999999999899} { 28 repeating digits in brackets}
1/999000999000999001=0.{000000000000000010009999999999999998999} { 42 repeating digits in brackets}
1/999900009999000099990001=0.{00000000000000000000000100009999999999999999999999989999} { 56 repeating digits in brackets}
1/999990000099999000009999900001=0.
{0000000000000000000000000000010000099999999999999999999999999999899999} { 70 repeating digits in brackets}
1/999999000000999999000000999999000001=0.
{000000000000000000000000000000000010000009999999999999999999999999
999999999998999999} { 84 repeating digits in brackets}
1/999999900000009999999900000009999990000001=0.
{00000000000000000000000000000000000000010000000999999999999999999999999999999999999999999999899999
99} { 98 repeating digits in brackets}
1/999999990000000099999999900000000999999990000001=0.
{0000000000000000000000000000000000000000000000010000000099999999999999999999999999999999999999999999
9999999899999999} { 112 repeating digits in brackets}
1/999999999000000000999999999900000000099999999900000001=0.
{00000000000000000000000000000000000000000000000000010000000009999999999999999999999999999999999999
999999999999999999998999999999} { 126 repeating digits in brackets}
1/999999999900000000009999999999000000000099999999990000000001=0.
{0000000000000000000000000000000000000000000000000000000000010000000000999999999999999999999999999999
999999999999999999999999999999999999999999999989999999999} { 140 repeating digits in brackets}
1/999999999990000000000999999999990000000000099999999999000000000001=0.
{00000000000000000000000000000000000000000000000000000000000000010000000000999999999999999999999999999
999999999999999999999999999999999999999999999999999999999989999999999} { 154 repeating digits in brackets}
1/999999999999000000000009999999999990000000000009999999999999000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000010000000000009999999999999999
999999999999999999999999999999999999999999999999999999999999999999998999999999999} { 168 repeating digits in brackets}
1/999999999999900000000000099999999999999000000000000999999999999990000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989999999999999} { 182 repeating digits in brackets}
1/999999999999990000000000000999999999999999000000000000009999999999999990000000000000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000
009999999999999999999999999999999999999999999999999999999999

0000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000010000000000000000000999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000
0009999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99999} { 392 repeating digits in brackets}
1/9999999999999999999999999999000000000000000000000000000000000999999999999999999999999999999900000000
0000000000000000000000999999999999999999999999999999000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000
0000000000999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999} { 406 repeating digits in brackets}
1/9999999999999999999999999999990000000000000000000000000000000999999999999999999999999999999900000
0000000000000000000000000999999999999999999999999999999000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000
0000000000000000000999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
998999999999999999999999999999999} { 420 repeating digits in brackets}
1/9999999999999999999999999999990000000000000000000000000000000999999999999999999999999999999900
0000000000000000000000000000000999999999999999999999999999999900000000000000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000
0000000000000000000000000999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999998999999999999999999999999999999999} { 434 repeating digits in brackets}
1/9999999999999999999999999999990000000000000000000000000000000999999999999999999999999999999999999
9000000000000000000000000000000000999999999999999999999999999999900000000000000000000000000000001
=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010
0000000000000000000000000000000999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999998999999999999999999999999999999999} { 448 repeating digits in brackets}
1/9999999999999999999999999999990000000000000000000000000000000999999999999999999999999999999999999
9999000000000000000000000000000000000999999999999999999999999999999900000000000000000000000000000
000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000100000000000000000000000000000000999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999

999999999999000000000000000000000000000000000999999999999999999999999999999999999000000000000
000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000100000000000000000000000000000000000999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999

This is the fourth family of numbers to create them start with 90909091 and placing extra 90 after each of the 9's group which creates 99009900990099001 the next time placing extra 90 after each of the 9's group which creates 9990009990009990009990001, see below. The increment of each number's repeating digits is 18 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/90909091=0.{000000010999999989} { 18 repeating digits in brakes}
1/9900990099009901=0.{000000000000000100999999999999999899} { 36 repeating digits in brakes}
1/9990009990009990009990001=0.{000000000000000000000001000999999999999999999999998999} { 54 repeating digits in brackets}
1/9999000099990009999000099990001=0.
{000000000000000000000000000000100009999999999999999999999999999999989999} { 72 repeating digits in brackets}
1/9999900009999900009999900009999900001=0.
{000000000000000000000000000000000000001000009999999999999999999999999999999999999999899999} { 90 repeating digits in brackets}
1/9999990000099999900000999999000000999999000001=0.
{000000000000000000000000000000000000000000000001000000999999999999999999999999999999999999999999999999999998999999} { 108 repeating digits in brackets}
1/9999999000000099999990000000999999990000000999999990000001=0.
{000000000000000000000000000000000000000000000000000000010000000999999999999999999999999999999999999999999999999999

0000000000000000000000000000010000000000000009999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999998999999999999999} {
288 repeating digits in brackets}
1/9999999999999999900000000000000000999999999999999990000000000000000999999999999999990000000000
00000009999999999999999900000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000010000000000000000999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989
9999999999999999999} { 306 repeating digits in brackets}
1/9999999999999999990000000000000000099999999999999999900000000000000000999999999999999999900000
00000000000009999999999999999990000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000010000000000000000099999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999899999999999999999999} { 324 repeating digits in brackets}
1/9999999999999999999900000000000000000999999999999999999990000000000000000000999999999999999999
0000000000000000000999999999999999999900000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000010000000000000000000999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999998999999999999999999} { 342 repeating digits in brackets}
1/9999999999999999999990000000000000000009999999999999999999900000000000000000000999999999999999
9999900000000000000000000999999999999999999999000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000010000000000000000000009999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999998999999999999999999} { 360 repeating digits in
brackets}
1/9999999999999999999999000000000000000000009999999999999999999999000000000000000000000999999999999
9999999999000000000000000000009999999999999999999999000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000009999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999998999999999999999999} { 378
repeating digits in brackets}
1/9999999999999999999999900000000000000000000999999999999999999999999000000000000000000000999999999
9999999999999999000000000000000000000999999999999999999999999000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000
0000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999998999999999999999999} { 396 repeating digits in brackets}
1/9999999999999999999999990000000000000000000009999999999999999999999999000000000000000000000000999
9999999999999999999990000000000000000000000999999999999999999999999990000000000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000
0000000000000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9998999999999999999999999999999} { 414 repeating digits in brackets}
1/9999999999999999999999999000000000000000000000009999999999999999999999999900000000000000000000000
0999999999999999999999999900000000000000000000009999999999999999999999999900000000000000000000001
=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010
0000000000000000000000009999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999998999999999999999999999999999999999999999999999999999999999

0000001000000000000000000000000999999999

0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000010000000000000000000000000000000000000000999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999} { 684 repeating digits in brackets}
1/999999999999999999999999999999999999990000000000000000000000000000000000000000999999999999999999
999999999999999999999999000000000000000000000000000000000000000000999999999999999999999999999999999999
999000000000000000000000000000000000000000999999999999999999999999999999999999999999999999000000000000
000000000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000100000000000000000000000000000000000000000000999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999

This is the fifth family of numbers to create them start with 91 and placing a 09 before the 1 which creates 9<u>09</u>1 the next time place another 09 before the 1 creating 909<u>09</u>1, see below. The increment of each number's repeating digits is 4 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/91=0.{010989} {6 repeating digits in brackets}
1/9091=0.{0001099989} {10 repeating digits in brackets}
1/909091=0.{00000109999989} {14 repeating digits in brackets}
1/90909091=0.{000000010999999989} {18 repeating digits in brackets}
1/9090909091=0.{0000000001099999999989} {22 repeating digits in brackets}
1/909090909091=0.{00000000000109999999999989} {26 repeating digits in brackets}
1/90909090909091=0.{000000000000010999999999999989} {30 repeating digits in brackets}
1/9090909090909091=0.{0000000000000001099999999999999989} {34 repeating digits in brackets}
1/909090909090909091=0.{00000000000000000109999999999999999989} {38 repeating digits in brackets}
1/9090909090909090909091=0.{000000000000000000010999999999999999999989} {42 repeating digits in brackets}
1/90909090909090909090091=0.{0000000000000000000000109999999999999999999999989} {46 repeating digits in brackets}
1/909090909090909090909091=0.{00000000000000000000000109999999999999999999999999989} {50 repeating digits in brackets}
1/9090909090909090909090909091=0.{000000000000000000000000010999999999999999999999999999989} {54 repeating digits in brackets}
1/90909090909090909090909090909091=0.{0000000000000000000000000001099999999999999999999999999999989} {58 repeating digits in brackets}
1/909090909090909090909090909090909091=0.
{00000000000000000000000000000010999999999999999999999999999999989} {62 repeating digits in brackets}
1/9090909090909090909090909090909090909091=0.
{000000000000000000000000000000001099999999999999999999999999999999989} {66 repeating digits in brackets}
1/90909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000109999999999999999999999999999999999989} {70 repeating digits in brackets}
1/9090909090909090909090909090909090909090909091=0.
{00000000000000000000000000000000000010999999999999999999999999999999999999989} {74 repeating digits in brackets}
1/909090909090909090909090909090909090909090909091=0.
{000000000000000000000000000000000000001099999999999999999999999999999999999999989} {78 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000010999999999999999999999999999999999999999989} {82 repeating digits in brackets}
1/90909090909090909090909090909090909090909090909090909091=0.
{00000000000000000000000000000000000000001099999999999999999999999999999999999999999989} {86 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909091=0.
{000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999989} {90 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999989} {94 repeating digits in brackets}
1/90909090909090909090909090909090909090909090909090909090909090909091=0.
{00000000000000000000000000000000000000000000001099999999999999999999999999999999999999999999999999989} {98 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909091=0.
{000000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999999989} {102 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999989} {106 repeating digits in brackets}
1/90909090909090909090909090909090909090909090909090909090909090909090909090909091=0.
{00000000000000000000000000000000000000000000000000001099999999999999999999999999999999999999999999999999999999999989} {110 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909091=0.
{000000000000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999999999

999999999999999989} {114 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999989} {118 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999989} {122 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999989} {126 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999989} {130 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999989} {134 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999999989} {138 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999999999989} {142 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999999999999989} {146 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
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1/9090909090909090909090909090909090909090909090909090909091=0.
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1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999999999999999999999989} {158 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
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1/9090909090909090909090909090909090909090909090909090909091=0.
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{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989} {178 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=0.
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1/9090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989} {186 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909091=

0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000109
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989}
{190 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
1=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
0999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999998
9} {194 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0109999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99989} {198 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
09091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0001099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999989} {202 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
0909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000010999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999989} {206 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000109999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99999999999999989} {210 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
09090909091=0.
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0000000001099999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999989} {214 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
0909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000010999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999989} {218 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000109999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999989} {222 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
09090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000010999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999989} {226 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
0909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000010999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999989} {230 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
09090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000010999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999989} {234 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000010999999999

1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
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{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989}
{286 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999989
} {290 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9989} {294 repeating digits in brackets}
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090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99999989} {298 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999989} {302 repeating digits in brackets}
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090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999989} {306 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
99999999999999999989} {310 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999989} {314 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999989} {318 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000109999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999989} {322 repeating digits in brackets}
1/909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909
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{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999989} {326 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
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9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {330 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {334 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {338 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {342 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {346 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {350 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {354 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {358 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000010999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999989} {362 repeating digits in brackets}
1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909091=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000000000109999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999989} {366 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909091=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000001099999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999989} {370 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909091=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
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9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999989} {374 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909091=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
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9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999989} {378 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909091=0
.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000001099
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999989} {382 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909091
=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000010
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999989}
{386 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909090
91=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
1099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
989} {390 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
9091=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0010999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999989} {394 repeating digits in brackets}

1/9090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
0909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090909090
909091=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

0000109999999999

This is the sixth family of numbers to create them start with 900991 and placing a 900990 in the middle which creates 900900990991 the next time place another 900990 in the middle creating 900900900990990991, see below. The increment of each number's repeating digits is 9 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 on the left and two 1's and two 8's on the right. I believe this number is from this list "9009009009...<396>" it has 396 digits which is equal to 6 * 66 a requirement and is a prime number

1/900991=0.{000001109889} { 12 repeating digits in brackets}
1/900900990991=0.{00000000001109999889} { 21 repeating digits in brackets}
1/900900900990990991=0.{0000000000000000001109999999889} { 30 repeating digits in brackets}
1/900900900900990990990991=0.{000000000000000000000001109999999999889} { 39 repeating digits in brackets}
1/900900900900900990990990990991=0.{00000000000000000000000000000001109999999999999889} { 48 repeating digits in brackets}
1/900900900900900900990990990990990991=0.
{000000000000000000000000000000000001109999999999999999889} { 57 repeating digits in brackets}
1/900900900900900900900990990990990990990991=0.
{0000000000000000000000000000000000000000001109999999999999999999889} { 66 repeating digits in brackets}
1/900900900900900900900900990990990990990990990991=0.
{00000000000000000000000000000000000000000000000001109999999999999999999999889} { 75 repeating digits in brackets}
1/900900900900900900900900900990990990990990990990990991=0.
{000000000000000000000000000000000000000000000000000001109999999999999999999999999889} { 84 repeating digits in brackets}
1/900900900900900900900900900900990990990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000001109999999999999999999999999999889}
{ 93 repeating digits in brackets}
1/900900900900900900900900900900900990990990990990990990990990990991=0.
{00000000000000000000000000000000000000000000000000000000000000000001109999999999999999999999999999999999889} { 102 repeating digits in brackets}
1/900900900900900900900900900900900900990990990990990990990990990990990991=0.
{000000000000000000000000000000000000000000000000000000000000000000000000001109999999999999999999999999999999999889} { 111 repeating digits in brackets}
1/900900900900900900900900900900900900900990990990990990990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000001109999999999999999999999999999999999999999889} { 120 repeating digits in brackets}
1/900900900900900900900900900900900900900900990990990990990990990990990990990990990991=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000001109999999999999999999999999999999999999999

1/900900900900900900900900900900900900900900900900900900900900900990990990990990990990990990990990990990990990990990990990990991=0.
{0000000000

repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0990990990990990990990990990990990990990990990990990990990990990990990990990990990990990990990991
=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
0999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999988
9} { 291 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0900990990990990990990990990990990990990990990990990990990990990990990990990990990990990990990990
990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000110999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999889} { 300 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0900900990990990990990990990990990990990990990990990990990990990990990990990990990990990990990990
990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000001109999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999889} { 309 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0900900900990990990990990990990990990990990990990990990990990990990990990990990990990990990990990
990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000110999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999889} { 318 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
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990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001109999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999889} { 327 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
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990990990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001109999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999889} { 336 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0900900900900990990990990990990990990990990990990990990990990990990990990990990990990990990990990
990990990990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001109999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999889} { 345 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0900900900900990990990990990990990990990990990990990990990990990990990990990990990990990990990990
990990990990990990990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000001109999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999889} { 354 repeating digits in brackets}
1/900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900900
0900900900900990990990990990990990990990990990990990990990990990990990990990990990990990990990990
990990990990990990990990990990990990990991=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000110999999999

This is the seventh family of numbers to create them start with 10099989899000101 and placing extra digits at different places which creates 1000999998998999000010001 the next time placing extra digits at different places which creates 10000999999989998999900000001001 , see below. The increment of each number's repeating digits is 18 extra digits. The numbers on both sides of the equal sign are mostly 0's and 9's with a 1 and an 8 on the right.

1/10099989899000101=0.{000000000000000099010000009900999999999999999900989999990099} { 60 repeating digits in brackets

1/10009999989989990000010 01=0.
{0000000000000000000000009990010000000009990009999999999999999999999000098999999999000999} { 90 repeating digits in brackets

1/100009999999899989999000000010001=0.
{000000000000000000000000000000009999000100000000000999900009999999999999999999999999999999990000
9998999999999999900009999} { 120 repeating digits in brackets

1/1000009999999998999989999900000000100001=0.
{0000000000000000000000000000000000000000999990000100000000000000999990000099999999999999999999
9999999999999999999000009999899999999999999990000099999} { 150 repeating digits in brackets

1/10000009999999999989999989999990000000000001000001=0.
{00000000000000000000000000000000000000000000000999999000001000000000000000000999999000000999999
9999999999999999999999999999999999999999999000000999998999999999999999999000000999999} { 180 repeating digits in brackets

1/100000009999999999999899999989999999000000000000010000001=0.
{0000000000000000000000000000000000000000000000000000000999999900000010000000000000000000000999999
9900000009999999999999999999999999999999999999999999999999999999999000000009999989999999999999999999
99900000009999999} { 210 repeating digits in brackets

1/1000000009999999999999989999999899999999900000000000000100000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000999999990000000100000000000000000
0000000099999999000000009999999999999999999999999999999999999999999999999999999999999999999999999000000009
9999998999999999999999999999999999000000009999999999} { 240 repeating digits in brackets

1/10000000009999999999999999899999999899999999990000000000000000001000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000999999999000000001000000
0000000000000000000009999999990000000009999999999999999999999999999999999999999999999999999999999999999999
9999999999999900000000099999999899999999999999999999999999999900000000009999999999} { 270 repeating digits in brackets

1/100000000009999999999999999998999999999899999999990000000000000000000010000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999000000
0001000000000000000000000000000000999999999900000000009999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999000000000999999999899999999999999999999999999999990000000000
9999999999999999999900000000009999999999} { 300 repeating digits in brackets

1/1000000000009999999999999999999998999999999898999999999900000000000000000000000100000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999
9990000000000100000000000000000000000000000000999999999990000000000999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999900000000000999999999999} { 330 repeating digits in brackets

1/10000000000009999999999999999999999898999999999898999999999990000000000000000000000000010000000000
01=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
9999999999990000000000010000000000000000000000000000000000000999999999999000000000000999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999998999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999

{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000999999999999990000000000001000000000000000000000000000000000000000000000000000099999999999
9990000000000000099999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999000000000000000999999999999989999999999999999999999999999999999999999999999
9999900000000000000999999999999999} { 420 repeating digits in brackets
1/1000000000000000999999999999999999999999999999989999999999999998999999999999999900000000000000000000
0000000001000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000099999999999999900000000000001000000000000000000000000000000000000000000000000
0099999999999999900000000000000999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999000000000000000999999999999998999999999999999999999999
9999999999999999999999999999999000000000000000999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999

9999999000000000000000000000999999999999999999999} { 630 repeating digits in brackets

This is family group number eight. The following prime number is a prime factor of (10^2700-1)/9 it is one of the strangest prime number I have come across yet. Yes it has a lot of 0's and 9's like the other number in the article but it also has the numbers 1, 2, 4,5, 7 and 8's in the middle of the number. On first inspection because of the extra numbers it would not form a family of numbers. I started with the number below and had to back generate the first six numbers. One group of 9;s only had 6 9's, so the first number does not have that group., they are found between the 4 and 8 in the beginning of the number. This is a small list because it adds an extra 120 digits with each new number.

999999900000004999999899999998000000199999995000000000000002999999999999995000000199999997999999900000004999999900000001

1/904898195002995197904901=0.
{000000000000000000000001105096689906304892905305889698210197689906304892905305889697105100999999999999999999988949033100936951070946941103017898023100936951070946941103028948 99} { 180 repeating digits in brackets}
1/99004989980199500002999950199799004990 01=0.
{000000000000000000000000000000000000000010100500996969899900603004989929900503005989896998020100199796989990060300498992990050300598989969970100501000999999999999999999999999999999999999999998989949900303010009939699501007009949699401010030019798998002030100099396995010070099496994010100300299898994998999}
{ 300 repeating digits in brackets}
1/999000499899980019995000000299999950019997999000499900 01=0.
{000000000000000000000000000000000000000000000000000000010010005000999699698999900060030004998999299900050030005998998999699700100050010000999999999999999999999999999999999999999

0199999997999999699999989999999900000006000000300000004999999899999992999999900000005000000300000
0059999998999999899999996999999970000001000000050000001000000009999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
9994999999900000003000000300000010000000099999993999999699999995000000100000007000000099999994999
9996999999940000001000000100000003000000019999997999999899999998000000020000003000000100000000999
9999399999969999999500000010000000700000009999999499999969999999400000010000001000000030000000299
9999899999994999999899999999 { 900 repeating digits in brackets}

Family group nine is there ever an end. We are back to having mostly 0's and 9's to make the number but this rime the 9's are mostly in the center with an increase of 30 digits in the reciprocal each time.

1/109889011=0.{000000009100090999999990899909} { 30 repeating digits in brackets}
1/10099989899000101=0.{000000000000000099010000009900999999999999999900989999990099} { 60 repeating digits in brackets}
1/1000999998998999000001001=0.
{000000000000000000000000999001000000000999000999999999999999999999999000099899999999000999} { 90 repeating digits in brackets}
1/100009999999899989999000000010001=0.
{000000000000000000000000000000000999990001000000000000999900009999999999999999999999999999999990000
999899999999999900009999} { 120 repeating digits in brackets}
1/10000099999999989999899999000000000100001=0.
{000000000000000000000000000000000000000000999990000100000000000000000999990000009999999999999999999999
999999999999999999990000099998999999999999999990000099999} { 150 repeating digits in brackets}
1/1000000999999999998999998999999000000000001000001=0.
{000000000000000000000000000000000000000000000000000999999900000100000000000000000000999999000000999999
999999999999999999999999999999999999999999990000009999989999999999999999999000000999999} { 180 repeating digits in brackets}
1/10000000999999999999989999998999999900000000000000010000001=0.
{000000000000000000000000000000000000000000000000000000000999999900000010000000000000000000000099999
990000000999999999999999999999999999999999999999999999999999999999000000009999998999999999999999999
99900000009999999} { 210 repeating digits in brackets}
1/100000000999999999999998999999989999999900000000000000100000001=0.
{000000000000000000000000000000000000000000000000000000000000000999999990000000010000000000000000
000000009999999900000000999999999999999999999999999999999999999999999999999999999999999999999000000009
999998999999999999999999999999999000000000999999999} { 240 repeating digits in brackets}
1/1000000000999999999999999998999999998999999999000000000000000000001000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000999999999000000001000000
000000000000000000000999999999000000000999999999999999999999999999999999999999999999999999999999999999
999999999999999000000000999999998999999999999999999999999999999000000000999999999} { 270 repeating digits in brackets}
1/10000000000999999999999999999989999999998999999999900000000000000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999000000
000100000000000000000000000000000999999999900000000009999999999999999999999999999999999999999999
999999999999999999999999999999999999999000000000999999999899999999999999999999999999999990000000000
9999999999} { 300 repeating digits in brackets}
1/100000000000999999999999999999999899999999998999999999999000000000000000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999
999000000000010000000000000000000000000000000999999999999000000000009999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999000000000099999999999} { 330 repeating digits in brackets}
1/1000000000000999999999999999999999999999899999999999899999999999999000000000000000000000000010000000000
01=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
999999999999000000000001000000000000000000000000000000000999999999999000000000009999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999899999999999999999999999999999999999999000000000000099999999999999} { 360 repeating digits in brackets}
1/10000000000000999999999999999999999999999899999999999899999999999999000000000000000000000000000001000
0000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000009999999999999000000000001000000000000000000000000000000000000000999999999999900000000000000
009999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999999
999999999000000000000999999999999899999999999999999999999999999999999999999999999999999999999999999999
999999999999999999999999999999999999

9990000000000000999999999

This is a spin on another family the 1010 etc this group droppers the last 0 this is the first family of the third family of families see the next pages

1/101=0.{0099} { 4 repeating digits in brackets}
1/10101=0.{00.{099} { 6 repeating digits in brackets}
1/1010101=0.{00000099} { 8 repeating digits in brackets}
1/101010101=0.{0000000099} { 10 repeating digits in brackets}
1/10101010101=0.{000000000099} { 12 repeating digits in brackets}
1/1010101010101=0.{00000000000099} { 14 repeating digits in brackets}
1/101010101010101=0.{0000000000000099} { 16 repeating digits in brackets}
1/10101010101010101=0.{000000000000000099} { 18 repeating digits in brackets}
1/1010101010101010101=0.{00000000000000000099} { 20 repeating digits in brackets}
1/101010101010101010101=0.{0000000000000000000099} { 22 repeating digits in brackets}
1/10101010101010101010101=0.{000000000000000000000099} { 24 repeating digits in brackets}
1/1010101010101010101010101=0.{00000000000000000000000099} { 26 repeating digits in brackets}
1/101010101010101010101010101=0.{0000000000000000000000000099} { 28 repeating digits in brackets}
1/10101010101010101010101010101=0.{000000000000000000000000000099} { 30 repeating digits in brackets}
1/1010101010101010101010101010101=0.{00000000000000000000000000000099} { 32 repeating digits in brackets}
1/101010101010101010101010101010101=0.{0000000000000000000000000000000099} { 34 repeating digits in brackets}
1/10101010101010101010101010101010101=0.{000000000000000000000000000000000099} { 36 repeating digits in brackets}
1/1010101010101010101010101010101010101=0.{00000000000000000000000000000000000099} { 38 repeating digits in brackets}
1/101010101010101010101010101010101010101=0.{0000000000000000000000000000000000000099} { 40 repeating digits in brackets}
1/10101010101010101010101010101010101010101=0.{000000000000000000000000000000000000000099} { 42 repeating digits in brackets}
1/1010101010101010101010101010101010101010101=0.{00000000000000000000000000000000000000000099} { 44 repeating digits in brackets}
1/101010101010101010101010101010101010101010101=0.{0000000000000000000000000000000000000000000099} { 46 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000099} { 48 repeating digits in brackets}
1/1010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000099} { 50 repeating digits in brackets}
1/101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000099} { 52 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000099} { 54 repeating digits in brackets}
1/1010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000099} { 56 repeating digits in brackets}
1/101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000099} { 58 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000099} { 60 repeating digits in brackets}
1/1010101010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000000099} { 62 repeating digits in brackets}
1/101010101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000000099} { 64 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000099} { 66 repeating digits in brackets}
1/1010101010101010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000000000099} { 68 repeating digits in brackets}
1/101010101010101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000000000099} { 70 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000000099} { 72 repeating digits in brackets}
1/1010101010101010101010101010101010101010101010101010101010101010101010101=0.

{0000000000000000000000000000000000000000000000000000000000000000000000000000099} { 74 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000099} { 76 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 78 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 80 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 82 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 84 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 86 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 88 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 90 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 92 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 94 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 96 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 98 repeating digits in brackets}
1/10101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099} { 100 repeating digits in brackets}

This family adds another 0 between the 1's to form the second family of families,

1/1001=0.{000999} { 6 repeating digits in brackets}
1/1001001=0.{000000999} { 9 repeating digits in brackets}
1/1001001001=0.{000000000999} { 12 repeating digits in brackets}
1/1001001001001=0.{000000000000999} { 15 repeating digits in brackets}
1/1001001001001001=0.{000000000000000999} { 18 repeating digits in brackets}
1/1001001001001001001=0.{000000000000000000999} { 21 repeating digits in brackets}
1/1001001001001001001001=0.{000000000000000000000999} { 24 repeating digits in brackets}
1/1001001001001001001001001=0.{000000000000000000000000999} { 27 repeating digits in brackets}
1/1001001001001001001001001001=0.{000000000000000000000000000999} { 30 repeating digits in brackets}
1/1001001001001001001001001001001=0.{000000000000000000000000000000999} { 33 repeating digits in brackets}
1/1001001001001001001001001001001001=0.{000000000000000000000000000000000999} { 36 repeating digits in brackets}
1/1001001001001001001001001001001001001=0.{000000000000000000000000000000000000999} { 39 repeating digits in brackets}
1/1001001001001001001001001001001001001001=0.{000000000000000000000000000000000000000999} { 42 repeating digits in brackets}
1/1001001001001001001001001001001001001001001=0.{000000000000000000000000000000000000000000999} { 45 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000999} { 48 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000999} { 51 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000999} { 54 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000999} { 57 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000999} { 60 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000999} { 63 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000999} { 66 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000999} { 69 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000999} { 72 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000999} { 75 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000999} { 78 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000999} { 81 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000999} { 84 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000999} { 87 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999} { 90 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999}
{ 93 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001=

0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999
} { 96 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001
01=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
999} { 99 repeating digits in brackets}
1/1001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001001
01001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000999} { 102 repeating digits in brackets}

Here is the third family of this new family of families.

1/10001=0.{00009999} { 8 repeating digits in brackets}
1/100010001=0.{000000009999} { 12 repeating digits in brackets}
1/1000100010001=0.{0000000000009999} { 16 repeating digits in brackets}
1/10001000100010001=0.{00000000000000009999} { 20 repeating digits in brackets}
1/100010001000100010001=0.{000000000000000000009999} { 24 repeating digits in brackets}
1/1000100010001000100010001=0.{0000000000000000000000009999} { 28 repeating digits in brackets}
1/10001000100010001000100010001=0.{00000000000000000000000000009999} { 32 repeating digits in brackets}
1/100010001000100010001000100010001=0.{000000000000000000000000000000009999} { 36 repeating digits in brackets}
1/1000100010001000100010001000100010001=0.{0000000000000000000000000000000000009999} { 40 repeating digits in brackets}
1/10001000100010001000100010001000100010001=0.{00000000000000000000000000000000000000009999} { 44 repeating digits in brackets}
1/100010001000100010001000100010001000100010001=0.
{000000000000000000000000000000000000000000009999} { 48 repeating digits in brackets}
1/1000100010001000100010001000100010001000100010001=0.
{0000000000000000000000000000000000000000000000009999} { 52 repeating digits in brackets}
1/10001000100010001000100010001000100010001000100010001=0.
{00000000000000000000000000000000000000000000000000009999} { 56 repeating digits in brackets}
1/100010001000100010001000100010001000100010001000100010001=0.
{000000000000000000000000000000000000000000000000000000009999} { 60 repeating digits in brackets}
1/1000100010001000100010001000100010001000100010001000100010001=0.
{0000000000000000000000000000000000000000000000000000000000009999} { 64 repeating digits in brackets}
1/10001000100010001000100010001000100010001000100010001000100010001=0.
{00000000000000000000000000000000000000000000000000000000000000009999} { 68 repeating digits in brackets}
1/100010001000100010001000100010001000100010001000100010001000100010001=0.
{000000000000000000000000000000000000000000000000000000000000000000009999} { 72 repeating digits in brackets}
1/1000100010001000100010001000100010001000100010001000100010001000100010001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000009999} { 76 repeating digits in brackets}
1/10001000100010001000100010001000100010001000100010001000100010001000100010001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000009999} { 80 repeating digits in brackets}
1/100010001000100010001000100010001000100010001000100010001000100010001000100010001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000009999} { 84 repeating digits in brackets}
1/1000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000009999} { 88 repeating digits in brackets}
1/10001000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999} { 92 repeating digits in brackets}
1/100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999} { 96 repeating digits in brackets}
1/1000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001000100010001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999} { 100 repeating digits in brackets}

Here is a collection of the next 16 families as you can see it continues in the same pattern as in above three families. With these 20 families it is not a proof but these samples makes it just hard to dismiss this forms the third family of families.

1/100001=0.{0000099999} { 10 repeating digits in brackets}
1/10000100001=0.{000000000099999} { 15 repeating digits in brackets}
1/1000010000100001=0.{00000000000000099999} { 20 repeating digits in brackets}
1/100001000010000100001=0.{0000000000000000000099999} { 25 repeating digits in brackets}
1/10000100001000010000100001=0.{000000000000000000000000099999} { 30 repeating digits in brackets}
1/1000010000100001000010000100001=0.{00000000000000000000000000000099999} { 35 repeating digits in brackets}
1/100001000010000100001000010000100001=0.{0000000000000000000000000000000000099999} { 40 repeating digits in brackets}
1/10000100001000010000100001000010000100001=0.{000000000000000000000000000000000000000099999} { 45 repeating digits in brackets}
1/1000010000100001000010000100001000010000100001=0.{00000000000000000000000000000000000000000000099999} { 50 repeating digits in brackets}
1/100001000010000100001000010000100001000010000100001=0.
{0000000000000000000000000000000000000000000000000099999} { 55 repeating digits in brackets}
1/10000100001000010000100001000010000100001000010000100001=0.
{000000000000000000000000000000000000000000000000000000000099999} { 60 repeating digits in brackets}
1/1000010000100001000010000100001000010000100001000010000100001=0.
{00000000000000000000000000000000000000000000000000000000000000000099999} { 65 repeating digits in brackets}
1/100001000010000100001000010000100001000010000100001000010000100001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000099999} { 70 repeating digits in brackets}
1/10000100001000010000100001000010000100001000010000100001000010000100001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000099999} { 75 repeating digits in brackets}
1/1000010000100001000010000100001000010000100001000010000100001000010000100001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999} { 80 repeating digits in brackets}

1/1000001=0.{000000999999} { 12 repeating digits in brackets}
1/1000001000001=0.{000000000000999999} { 18 repeating digits in brackets}
1/100000100000100000 1=0.{000000000000000000999999} { 24 repeating digits in brackets}
1/10000010000010000010000 01=0.{0000000000000000000000000999999} { 30 repeating digits in brackets}
1/1000001000001000001000001000001=0.{00000000000000000000000000000000999999} { 36 repeating digits in brackets}
1/100000100000100000100000100000100000 1=0.{000000000000000000000000000000000000000999999} { 42 repeating digits in brackets}
1/10000010000010000010000010000010000010000 01=0.{0000000000000000000000000000000000000000000999999} { 48 repeating digits in brackets}
1/1000001000001000001000001000001000001000001000001=0.
{00000000000000000000000000000000000000000000000000000000999999} { 54 repeating digits in brackets}
1/100000100000100000100000100000100000100000100000100000 1=0.
{000000000000000000000000000000000000000000000000000000000000000999999} { 60 repeating digits in brackets}
1/10000010000010000010000010000010000010000010000010000010000010000 01=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000999999} { 66 repeating digits in brackets}
1/1000001000001000001000001000001000001000001000001000001000001000001000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000999999} { 72 repeating digits in brackets}
1/100000100000100000100000100000100000100000100000100000100000100000100000100000 1=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999} { 78 repeating digits in brackets}
1/10000010000010000010000010000010000010000010000010000010000010000010000010000010000 01=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999} { 84 repeating digits in brackets}
1/1000001000001000001000001000001000001000001000001000001000001000001000001000001000001000001000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999} { 90 repeating digits in brackets}
1/100000100000100000100000100000100000100000100000100000100000100000100000100000100000100000100000100000 1=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999} { 96 repeating digits in brackets}

1/10000001=0.{00000009999999} { 14 repeating digits in brackets}
1/100000010000001=0.{000000000000009999999} { 21 repeating digits in brackets}
1/1000000100000010000001=0.{0000000000000000000009999999} { 28 repeating digits in brackets}
1/10000001000000100000010000001=0.{00000000000000000000000000009999999} { 35 repeating digits in brackets}
1/100000010000001000000100000010000001=0.{000000000000000000000000000000009999999} { 42 repeating digits in brackets}
1/1000000100000010000001000000100000010000001=0.{0000000000000000000000000000000000009999999} { 49 repeating digits in brackets}
1/10000001000000100000010000001000000100000010000001=0.
{00000000000000000000000000000000000000000000009999999} { 56 repeating digits in brackets}
1/100000010000001000000100000010000001000000100000010000001=0.
{000000000000000000000000000000000000000000000000009999999} { 63 repeating digits in brackets}
1/1000000100000010000001000000100000010000001000000100000010000001=0.
{0000000000000000000000000000000000000000000000000000009999999} { 70 repeating digits in brackets}
1/10000001000000100000010000001000000100000010000001000000100000010000001=0.
{00000000000000000000000000000000000000000000000000000000000009999999} { 77 repeating digits in brackets}
1/100000010000001000000100000010000001000000100000010000001000000100000010000001=0.
{000000000000000000000000000000000000000000000000000000000000000000009999999} { 84 repeating digits in brackets}
1/1000000100000010000001000000100000010000001000000100000010000001000000100000010000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000009999999} { 91 repeating digits in brackets}
1/10000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000009999999} { 98 repeating digits in brackets}
1/100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999}
{ 105 repeating digits in brackets}
1/1000000100000010000001000000100000010000001000000100000010000001000000100000010000001000000100000010000001
=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099
99999} { 112 repeating digits in brackets}

1/100000001=0.{0000000099999999} { 16 repeating digits in brackets}
1/10000000100000001=0.{000000000000000099999999} { 24 repeating digits in brackets}
1/1000000010000000100000001=0.{00000000000000000000000099999999} { 32 repeating digits in brackets}
1/100000001000000010000000100000001=0.{0000000000000000000000000000000099999999} { 40 repeating digits in brackets}
1/10000000100000001000000010000000100000001=0.{000000000000000000000000000000000000000099999999} { 48 repeating digits in brackets}
1/1000000010000000100000001000000010000000100000001=0.
{00000000000000000000000000000000000000000000000099999999} { 56 repeating digits in brackets}
1/100000001000000010000000100000001000000010000000100000001=0.
{000000000000000000000000000000000000000000000000000000000099999999} { 64 repeating digits in brackets}
1/10000000100000001000000010000000100000001000000010000000100000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000099999999} { 72 repeating digits in brackets}
1/1000000010000000100000001000000010000000100000001000000010000000100000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000099999999} { 80 repeating digits in brackets}
1/100000001000000010000000100000001000000010000000100000001000000010000000100000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999} { 88 repeating digits in brackets}
1/10000000100000001000000010000000100000001000000010000000100000001000000010000000100000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999} { 96 repeating digits in brackets}
1/1000000010000000100000001000000010000000100000001000000010000000100000001000000010000000100000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999}
{ 104 repeating digits in brackets}
1/100000001000000010000000100000001000000010000000100000001000000010000000100000001000000010000000100000001=
0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999
99999} { 112 repeating digits in brackets}

1/100000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999} { 120 repeating digits in brackets}
1/100000001=0.
{0000000000000000000000000000000000000000000000000000000000

brackets}
1/1000000001000000001000000001000000001000000001000000001000000001000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 90 repeating digits in brackets}
1/10000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 100 repeating digits in brackets}
1/100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 110 repeating digits in brackets}
1/1000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 120 repeating digits in brackets}
1/10000000001000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 130 repeating digits in brackets}
1/100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 140 repeating digits in brackets}
1/1000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 150 repeating digits in brackets}
1/10000000001000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000010000000001000000000100000000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999} { 160 repeating digits in brackets}

1/100000000001=0.{0000000000099999999999} { 22 repeating digits in brackets}
1/1000000000010000000001=0.{000000000000000000000099999999999} { 33 repeating digits in brackets}
1/10000000000100000000001000000000001=0.{00000000000000000000000000000000000099999999999} { 44 repeating digits in brackets}
1/100000000001000000000010000000000010000000001=0.{0000000000000000000000000000000000000000000099999999999} { 55 repeating digits in brackets}
1/1000000000010000000000100000000000100000000001=0.
{000000000000000000000000000000000000000000000000000099999999999} { 66 repeating digits in brackets}
1/10000000000100000000001000000000001000000000010000000001=0.
{0000000000000000000000000000000000000000000000000000000000000099999999999} { 77 repeating digits in brackets}
1/100000000001000000000010000000000010000000000100000000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999} { 88 repeating digits in brackets}
1/1000000000010000000000100000000000100000000001000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999} { 99 repeating digits in brackets}
1/10000000000100000000001000000000001000000000010000000000100000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999} { 110 repeating digits in brackets}
1/100000000001000000000010000000000010000000000100000000001000000000010000000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999} { 121 repeating digits in brackets}
1/1000000000010000000000100000000000100000000001000000000010000000000100000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999} { 132 repeating digits in brackets}
1/10000000000100000000001000000000001000000000010000000000100000000001000000000010000000001=0.
{0000000000000000000000000000000000000000000000000000000000

0000000000000000000000099999999999} { 143 repeating digits in brackets}
1/1000000000010000000000100000000001000000000010000000000100000000001000000000010000000000100000000001000000
0000100000000001000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000099999999999} { 154 repeating digits in brackets}
1/1000000000010000000000100000000001000000000010000000000100000000001000000000010000000000100000000001000000
0000100000000001000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000099999999999} { 165 repeating digits in brackets}
1/1000000000010000000000100000000001000000000010000000000100000000001000000000010000000000100000000001000000
0000100000000001000000000010000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000099999999999} { 176 repeating digits in brackets}

1/1000000000001=0.{000000000000999999999999} { 24 repeating digits in brackets}
1/1000000000001000000000001=0.{000000000000000000000000999999999999} { 36 repeating digits in brackets}
1/1000000000001000000000001000000000001=0.{000000000000000000000000000000000000999999999999} { 48 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000999999999999} { 60 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000999999999999} { 72 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000999999999999} { 84 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999} { 96 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999
9} { 108 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0999999999999} { 120 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000999999999999} { 132 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
00100000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000999999999999} { 144 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
00100000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000999999999999} { 156 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
00100000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000999999999999} { 168 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
00100000000001000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999} { 180 repeating digits in brackets}
1/1000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000001000000000
00100000000001000000000001000000000001000000000001000000000001000000000001000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0

1/10000000000001=0.{000000000000099999999999999} { 26 repeating digits in brackets}
1/100000000000010000000000001=0.{000000000000000000000000000099999999999999} { 39 repeating digits in brackets}
1/1000000000000100000000000010000000000001=0.{000000000000000000000000000000000000000099999999999999} { 52 repeating digits in brackets}
1/10000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000099999999999999} { 65 repeating digits in brackets}
1/100000000000010000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000099999999999999} { 78 repeating digits in brackets}
1/1000000000000100000000000010000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999} { 91 repeating digits in brackets}
1/10000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999} { 104 repeating digits in brackets}
1/100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999999} { 117 repeating digits in brackets}
1/1000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000000000

repeating digits in brackets}
1/1000000000000100000000000001000000000000100000000000010000000000001000000000000100000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999999} { 112 repeating digits in brackets}
1/10000000000001000000000000010000000000001000000000000100000000000010000000000001000000000000010000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999} { 126 repeating digits in brackets}
1/100000000000010000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999} { 140 repeating digits in brackets}
1/1000000000000100000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999} { 154 repeating digits in brackets}
1/10000000000001000000000000010000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999} { 168 repeating digits in brackets}
1/100000000000010000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999} { 182 repeating digits in brackets}
1/1000000000000100000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000099999999999999999} { 196 repeating digits in brackets}
1/10000000000001000000000000010000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000

1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000999999999999999} { 150 repeating digits in brackets}
1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000999999999999999} { 165 repeating digits in brackets}
1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000999999999999999} { 180 repeating digits in brackets}
1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001000000000000001000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999999} { 195 repeating digits
in brackets}
1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999999}
{ 210 repeating digits in brackets}
1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999
9999999999} { 225 repeating digits in brackets}
1/1000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001
000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000000000000001000
000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000099999999999999} { 240 repeating digits in brackets}

1/10000000000000001=0.{00000000000000009999999999999999} { 32 repeating digits in brackets}
1/100000000000000010000000000000001=0.{000000000000000000000000000000009999999999999999} { 48 repeating digits in
brackets}
1/1000000000000000100000000000000010000000000000001=0.
{0000000000000000000000000000000000000000000000009999999999999999} { 64 repeating digits in brackets}
1/10000000000000001000000000000000100000000000000010000000000000001=0.
{00000000000000000000000000000000000000000000000000000000000000009999999999999999} { 80 repeating digits in
brackets}
1/100000000000000010000000000000001000000000000000100000000000000010000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999999999} { 96
repeating digits in brackets}
1/1000000000000000100000000000000010000000000000001000000000000000100000000000000010000000000000001=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000009999999999999
99999} { 112 repeating digits in brackets}
1/10000000000000001000000000000000100000000000000010000000000000001000000000000000100000000000000010000000000
0000001=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000999999999999999999} { 128 repeating digits in brackets}
1/100000000000000010000000000000001000000000000000100000000000000010000000000000001000000000000000100000000000
000000100000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000999999999999999999} { 144 repeating digits in brackets}
1/100000000000000010000000000000001000000000000000100000000000000010000000000000001000000000000000100000000000
000000100000000000000001000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000999999999999999999} { 160 repeating digits in brackets}
1/1000000000000000100000000000000010000000000000001000000000000000100000000000000010000000000000001000000000000

0000001000000000000000100000000000000100000000000001=0.
{000000000000000

brackets}
1/1000000000000000010000000000000000100000000000000001000000000000000010000000000000000100000000000000001000
0000000000000100000000000000001000000000000000010000000000000000100000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

digits in brackets}
1/1000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
9999999999999999
9} { 216 repeating digits in brackets}
1/1000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
099999999999999999} { 234 repeating digits in brackets}
1/1000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000999999999999999999} { 252 repeating digits in brackets}
1/1000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000999999999999999999} { 270 repeating digits in brackets}
1/1000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000000
001000000000000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000999999999999999999} { 288 repeating digits in brackets}

1/10000000000000000001=0.{000000000000000000999999999999999999} { 38 repeating digits in brackets}
1/100000000000000000010000000000000000001=0.{000000000000000000000000000000000000000999999999999999999} { 57 repeating digits in brackets}
1/1000000000000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000999999999999999999} { 76 repeating digits in brackets}
1/10000000000000000001000000000000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999999999} { 95 repeating digits in brackets}
1/1000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999
9999999} { 114 repeating digits in brackets}
1/10000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000
000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000009999999999999999999} { 133 repeating digits in brackets}
1/10000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000
000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000999999999999999999999} { 152 repeating digits in brackets}
1/10000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000
000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000999999999999999999999} { 171 repeating digits in brackets}
1/10000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000
000000001000000000000000001000000000000000001000000000000000001=0.
{000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000999999999999999999999} { 190 repeating digits in brackets}
1/10000000000000000001000000000000000001000000000000000001000000000000000001000000000000000001000000000000
000000001000000000000000001000000000000000001000000000000000001000000000000000001=0.

{0000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000000999999999999999999999} { 200 repeating digits in brackets}

1/1000000000000000000010000000000000000000010000000000000000000010000000000000000000010000000000000000000100000
0000000000000010000000000000000000010000000000000000000010000000000000000000010000000000000000000001=0.

{000999999999999999999999

These nine families are very closely related, so I am placing them on one group of pages. Note the 7's do not work very well but still does have simple repeating digits. The numbers 2's and 5's the first digit is not part of the repeating digits. The number 4's the first 2 digit is not part of the repeating digits and the 8"s the first three digit is not part of the repeating digits. This is the start of a second family of families with no end in sight, granted not all of the numbers work but the still is an unlimited family that does belong to the working families.

1/11=0.{09} { 2 repeating digits in brackets}
1/101=0.{0099} { 4 repeating digits in brackets}
1/1001=0.{000999} { 6 repeating digits in brackets}
1/10001=0.{00009999} { 8 repeating digits in brackets}
1/100001=0.{0000099999} { 10 repeating digits in brackets}
1/1000001=0.{000000999999} { 12 repeating digits in brackets}
1/10000001=0.{00000009999999} { 14 simple digits in brackets}
1/100000001=0.{0000000099999999} { 16 repeating digits in brackets}
1/1000000001=0.{000000000999999999} { 18 repeating digits in brackets}
1/10000000001=0.{00000000009999999999} { 20 repeating digits in brackets}
1/100000000001=0.{0000000000099999999999} { 22 repeating digits in brackets}
1/1000000000001=0.{000000000000999999999999} { 24 repeating digits in brackets}
1/10000000000001=0.{00000000000009999999999999} { 26 repeating digits in brackets}
1/100000000000001=0.{0000000000000099999999999999} { 28 repeating digits in brackets}
1/1000000000000001=0.{000000000000000999999999999999} { 30 repeating digits in brackets}
1/10000000000000001=0.{00000000000000009999999999999999} { 32 repeating digits in brackets}
1/100000000000000001=0.{0000000000000000099999999999999999} { 34 repeating digits in brackets}
1/1000000000000000001=0.{000000000000000000999999999999999999} { 36 repeating digits in brackets}
1/10000000000000000001=0.{00000000000000000009999999999999999999} { 38 repeating digits in brackets}
1/100000000000000000001=0.{0000000000000000000099999999999999999999} { 40 repeating digits in brackets}

1 =1
1/11=0.{09} { 2 repeating digits in brackets}
1/111=0.{009} { 3 repeating digits in brackets}
1/1111=0.{0009} { 4 repeating digits in brackets}
1/11111=0.{00009} { 5 repeating digits in brackets}
1/111111=0.{000009} { 6 repeating digits in brackets}
1/1111111=0.{0000009} { 7 repeating digits in brackets}
1/11111111=0.{00000009} { 8 repeating digits in brackets}
1/111111111=0.{000000009} { 9 repeating digits in brackets}
1/1111111111=0.{0000000009} { 10 repeating digits in brackets}
1/11111111111=0.{00000000009} { 11 repeating digits in brackets}
1/111111111111=0.{000000000009} { 12 repeating digits in brackets}
1/1111111111111=0.{0000000000009} { 13 repeating digits in brackets}
1/11111111111111=0.{00000000000009} { 14 repeating digits in brackets}
1/111111111111111=0.{000000000000009} { 15 repeating digits in brackets}
1/1111111111111111=0.{0000000000000009} { 16 repeating digits in brackets}
1/11111111111111111=0.{00000000000000009} { 17 repeating digits in brackets}
1/111111111111111111=0.{000000000000000009} { 18 repeating digits in brackets}
1/1111111111111111111=0.{0000000000000000009} { 19 repeating digits in brackets}
1/11111111111111111111=0.{00000000000000000009} { 20 repeating digits in brackets}
1/111111111111111111111=0.{000000000000000000009} { 21 repeating digits in brackets}
2 = 2
1/2=0.5
1/22=0.0{45} { 2 repeating digits in brackets}
1/222=0.0{045} { 3 repeating digits in brackets}
1/2222=0.0{0045} { 4 repeating digits in brackets}
1/22222=0.0{00045} { 5 repeating digits in brackets}
1/222222=0.0{000045} { 6 repeating digits in brackets}
1/2222222=0.0{0000045} { 7 repeating digits in brackets}
1/22222222=0.0{00000045} { 8 repeating digits in brackets}
1/222222222=0.0{000000045} { 9 repeating digits in brackets}
1/2222222222=0.0{0000000045} { 10 repeating digits in brackets}

1/22222222222=0.0{00000000045} { 11 repeating digits in brackets}
1/222222222222=0.0{000000000045} { 12 repeating digits in brackets}
1/2222222222222=0.0{0000000000045} { 13 repeating digits in brackets}
1/22222222222222=0.0{00000000000045} { 14 repeating digits in brackets}
1/222222222222222=0.0{000000000000045} { 15 repeating digits in brackets}
1/2222222222222222=0.0{0000000000000045} { 16 repeating digits in brackets}
1/22222222222222222=0.0{00000000000000045} { 17 repeating digits in brackets}
1/222222222222222222=0.0{000000000000000045} { 18 repeating digits in brackets}
1/2222222222222222222=0.0{0000000000000000045} { 19 repeating digits in brackets}

3 =3
1/3=0.{3} { 1 repeating digits in brackets}
1/33=0.{03} { 2 repeating digits in brackets}
1/333=0.{003} { 3 repeating digits in brackets}
1/3333=0.{0003} { 4 repeating digits in brackets}
1/33333=0.{00003} { 5 repeating digits in brackets}
1/333333=0.{000003} { 6 repeating digits in brackets}
1/3333333=0.{0000003} { 7 repeating digits in brackets}
1/33333333=0.{00000003} { 8 repeating digits in brackets}
1/333333333=0.{000000003} { 9 repeating digits in brackets}
1/3333333333=0.{0000000003} { 10 repeating digits in brackets}
1/33333333333=0.{00000000003} { 11 repeating digits in brackets}
1/333333333333=0.{000000000003} { 12 repeating digits in brackets}
1/3333333333333=0.{0000000000003} { 13 repeating digits in brackets}
1/33333333333333=0.{00000000000003} { 14 repeating digits in brackets}
1/333333333333333=0.{000000000000003} { 15 repeating digits in brackets}
1/3333333333333333=0.{0000000000000003} { 16 repeating digits in brackets}
1/33333333333333333=0.{00000000000000003} { 17 repeating digits in brackets}
1/333333333333333333=0.{000000000000000003} { 18 repeating digits in brackets}
1/3333333333333333333=0.{0000000000000000003} { 19 repeating digits in brackets}

4 = 2 * 2
1/4=0.25
1/44=0.02{27} { 2 repeating digits in brackets}
1/444=0.00{225} { 3 repeating digits in brackets}
1/4444=0.00{0225} { 4 repeating digits in brackets}
1/44444=0.00{00225} { 5 repeating digits in brackets}
1/444444=0.00{000225} { 6 repeating digits in brackets}
1/4444444=0.00{0000225} { 7 repeating digits in brackets}
1/44444444=0.00{00000225} { 8 repeating digits in brackets}
1/444444444=0.00{000000225} { 9 repeating digits in brackets}
1/4444444444=0.00{0000000225} { 10 repeating digits in brackets}
1/44444444444=0.00{00000000225} { 11 repeating digits in brackets}
1/444444444444=0.00{000000000225} { 12 repeating digits in brackets}
1/4444444444444=0.00{0000000000225} { 13 repeating digits in brackets}
1/44444444444444=0.00{00000000000225} { 14 repeating digits in brackets}
1/444444444444444=0.00{000000000000225} { 15 repeating digits in brackets}
1/4444444444444444=0.00{0000000000000225} { 16 repeating digits in brackets}
1/44444444444444444=0.00{00000000000000225} { 17 repeating digits in brackets}
1/444444444444444444=0.00{000000000000000225} { 18 repeating digits in brackets}
1/4444444444444444444=0.00{0000000000000000225} { 19 repeating digits in brackets}

5 = 5
1/5=0.2
1/55=0.0{18} { 2 repeating digits in brackets}
1/555=0.0{018} { 3 repeating digits in brackets}
1/5555=0.0{0018} { 4 repeating digits in brackets}
1/55555=0.0{00018} { 5 repeating digits in brackets}
1/555555=0.0{000018} { 6 repeating digits in brackets}
1/5555555=0.0{0000018} { 7 repeating digits in brackets}
1/55555555=0.0{00000018} { 8 repeating digits in brackets}
1/555555555=0.0{000000018} { 9 repeating digits in brackets}

1/5555555555=0.0{0000000018} { 10 repeating digits in brackets}
1/55555555555=0.0{00000000018} { 11 repeating digits in brackets}
1/555555555555=0.0{000000000018} { 12 repeating digits in brackets}
1/5555555555555=0.0{0000000000018} { 13 repeating digits in brackets}
1/55555555555555=0.0{00000000000018} { 14 repeating digits in brackets}
1/555555555555555=0.0{000000000000018} { 15 repeating digits in brackets}
1/5555555555555555=0.0{0000000000000018} { 16 repeating digits in brackets}
1/55555555555555555=0.0{00000000000000018} { 17 repeating digits in brackets}
1/555555555555555555=0.0{000000000000000018} { 18 repeating digits in brackets}
1/5555555555555555555=0.0{0000000000000000018} { 19 repeating digits in brackets}

6 = 2 * 3
1/6=0.1{6} { 1 repeating digits in brackets}
1/66=0.0{15} { 2 repeating digits in brackets}
1/666=0.0{015} { 3 repeating digits in brackets}
1/6666=0.0{0015} { 4 repeating digits in brackets}
1/66666=0.0{00015} { 5 repeating digits in brackets}
1/666666=0.0{000015} { 6 repeating digits in brackets}
1/6666666=0.0{0000015} { 7 repeating digits in brackets}
1/66666666=0.0{00000015} { 8 repeating digits in brackets}
1/666666666=0.0{000000015} { 9 repeating digits in brackets}
1/6666666666=0.0{0000000015} { 10 repeating digits in brackets}
1/66666666666=0.0{00000000015} { 11 repeating digits in brackets}
1/666666666666=0.0{000000000015} { 12 repeating digits in brackets}
1/6666666666666=0.0{0000000000015} { 13 repeating digits in brackets}
1/66666666666666=0.0{00000000000015} { 14 repeating digits in brackets}
1/666666666666666=0.0{000000000000015} { 15 repeating digits in brackets}
1/6666666666666666=0.0{0000000000000015} { 16 repeating digits in brackets}
1/66666666666666666=0.0{00000000000000015} { 17 repeating digits in brackets}
1/666666666666666666=0.0{000000000000000015} { 18 repeating digits in brackets}
1/6666666666666666666=0.0{0000000000000000015} { 19 repeating digits in brackets}

7 = 7
1/7=0.{142857} { 6 repeating digits in brackets}
1/77=0.{012987} { 6 repeating digits in brackets}
1/777=0.{001287} { 6 repeating digits in brackets}
1/7777=0.{000128584287} { 12 repeating digits in brackets}
1/77777=0.{000012857271429857155714414287} { 30 repeating digits in brackets}
1/777777=0.{000001285715571429857144142858428572714287} { 42 repeating digits in brackets}
1/7777777=0.{000000128571441428572714285842857155714287} { 42 repeating digits in brackets}
1/77777777=0.{000000012857142985714287} { 24 repeating digits in brackets}
1/777777777=0.{000000001285714287} { 18 repeating digits in brackets}
1/7777777777=0.{000000000012857142858428571428 7} { 30 repeating digits in brackets}
1/77777777777=0.{000000000012857142857271428571429857142857155714285714414285714287} { 66 repeating digits in brackets}
1/777777777777=0.
{000000000000128571428571557142857142985714285714414285714285842857142857271428571428 7} { 84 repeating digits in brackets}
1/7777777777777=0.{000000000000012857142857144142857142857271428571428584285714285715571428571428 7} { 78 repeating digits in brackets}
1/77777777777777=0.{000000000000001285714285714298571428571428 7} { 42 repeating digits in brackets}
1/777777777777777=0.{000000000000000128571428571428 7} { 30 repeating digits in brackets}
1/7777777777777777=0.{000000000000000012857142857142858428571428571428 7} { 48 repeating digits in brackets}
1/77777777777777777=0.
{000000000000000001285714285714285727142857142857142985714285714285715571428571428571441428571428571428 7} { 102 repeating digits in brackets}
1/777777777777777777=0.
{000000000000000000128571428571428571557142857142857142985714285714285714414285714285714285842857142857271428571428571428 7} { 126 repeating digits in brackets}
1/7777777777777777777=0.
{000000000000000000012857142857142857144142857142857142857271428571428571428584285714285714285715571428571428571428 7} { 114 repeating digits in brackets}

8 = 2 *2 * 2
1/8=0.125
1/88=0.011{36} { 2 repeating digits in brackets}
1/888=0.001{126} { 3 repeating digits in brackets}
1/8888=0.000{1125} { 4 repeating digits in brackets}
1/88888=0.000{01125} { 5 repeating digits in brackets}
1/888888=0.000{001125} { 6 repeating digits in brackets}
1/8888888=0.000{0001125} { 7 repeating digits in brackets}
1/88888888=0.000{00001125} { 8 repeating digits in brackets}
1/888888888=0.000{000001125} { 9 repeating digits in brackets}
1/8888888888=0.000{0000001125} { 10 repeating digits in brackets}
1/88888888888=0.000{00000001125} { 11 repeating digits in brackets}
1/888888888888=0.000{000000001125} { 12 repeating digits in brackets}
1/8888888888888=0.000{0000000001125} { 13 repeating digits in brackets}}
1/88888888888888=0.000{00000000001125} { 14 repeating digits in brackets}
1/888888888888888=0.000{000000000001125} { 15 repeating digits in brackets}
1/8888888888888888=0.000{0000000000001125} { 16 repeating digits in brackets}
1/88888888888888888=0.000{00000000000001125} { 17 repeating digits in brackets}
1/888888888888888888=0.000{000000000000001125} { 18 repeating digits in brackets}
1/8888888888888888888=0.000{0000000000000001125} { 19 repeating digits in brackets}

9 = 3 * 3
1/9=0.1} { 1 repeating digits in brackets}
1/99=0.{01} { 2 repeating digits in brackets}
1/999=0.{001} { 3 repeating digits in brackets}
1/9999=0.{0001} { 4 repeating digits in brackets}
1/99999=0.{00001} { 5 repeating digits in brackets}
1/999999=0.{000001} { 6 repeating digits in brackets}
1/9999999=0.{0000001} { 7 repeating digits in brackets}
1/99999999=0.{00000001} { 8 repeating digits in brackets}
1/999999999=0.{000000001} { 9 repeating digits in brackets}
1/9999999999=0.{0000000001} { 10 repeating digits in brackets}
1/99999999999=0.{00000000001} { 11 repeating digits in brackets}
1/999999999999=0.{000000000001} { 12 repeating digits in brackets}
1/9999999999999=0.{0000000000001} { 13 repeating digits in brackets}
1/99999999999999=0.{00000000000001} { 14 repeating digits in brackets}
1/999999999999999=0.{000000000000001} { 15 repeating digits in brackets}
1/9999999999999999=0.{0000000000000001} { 16 repeating digits in brackets}
1/99999999999999999=0.{00000000000000001} { 17 repeating digits in brackets}
1/999999999999999999=0.{000000000000000001} { 18 repeating digits in brackets}
1/9999999999999999999=0.{0000000000000000001} { 19 repeating digits in brackets}
1/99999999999999999999=0.{00000000000000000001} { 20 repeating digits in brackets}

This looks like this is a second family of families that may mean there is an infinity number of families. The group above is part of this family too. Numbers of that only have factors of 2, 3 and 5 the number 11 only seams to work below 100. You can create an unlimited number of families with just these three numbers. Most of the families the first or second value needs to be dropped to start the true pattern. I have tested these types of numbers from 1's to 999's for 20 terms and the only prime numbers are the first numbers if they are prime no other term under it is prime. Even the family of 997 which is a prime number, the 19 term the smallest prime is 997. The following pages have the first six terms of the first families below 200 that have factors of 2, 3 and 5 only. I have tested all the combinations of powers of 2's and 5's up to 15 and 3's up to the power of 7 which produced this number, 2187000000000000000.

On the last two pages the numbers 243, 729 and 2187 are expanded to show if they are any good for repeating digits. As it goes the numbers 729 and 2187 are not as good as 81 and 243. Of all the powers of 3's like 3, 9, 27,81, 243, 729 and 2187; only the numbers 81 and 243 have a very interesting repeating reciprocal digits. Here is a look at power's of 3's to see how they built to form a family. Note how from 3^3 or 27 has 3 repeating digits which is the first power of of 3 two lines before. This process continues through out this table. While this is a very interesting observation it has not proven.

3^1	3	= 1 repeating digits
3^2	9	= 1 repeating digits
3^3	27	= 3 repeating digits
3^4	81	= 9 repeating digits
3^5	243	= 27 repeating digits
3^6	729	= 81 repeating digits
3^7	2,187	= 243 repeating digits
3^8	6,561	= 729 repeating digits
2^9	19,683	= 2,187 repeating digits
3^10	59,049	= 6,561 repeating digits
3^11	177147	= 19,683 repeating digits
3^12	531,441	= 59,049 repeating digits
3^13	1,594,323	= 177,147 repeating digits
3^14	4,782,969	= 531,441 repeating digits
3^15	14,348,907	= 1,594,323 repeating digits
3^16	43,046,721	= 4,782,969 repeating digits
3^17	129,140,163	= 14,348,907 repeating digits

10 = 2 * 5
1/10=0.1{} { 0 repeating digits in brackets}
1/1010=0.{0{0099} { 4 repeating digits in brackets}
1/101010=0.{0{000099} { 6 repeating digits in brackets}
1/10101010=0.{0{00000099} { 8 repeating digits in brackets}
1/1010101010=0.{0{0000000099} { 10 repeating digits in brackets}
1/101010101010=0.{0{000000000099} { 12 repeating digits in brackets}

11 = 11
1/11=0.{09} { 2 repeating digits in brackets}
1/1111=0.{0009} { 4 repeating digits in brackets}
1/111111=0.{000009} { 6 repeating digits in brackets}
1/11111111=0.{00000009} { 8 repeating digits in brackets}
1/1111111111=0.{0000000009} { 10 repeating digits in brackets}
1/111111111111=0.{000000000009} { 12 repeating digits in brackets}

12 = 2 * 2 * 3

1/12=0.08(3} { 1 repeating digits in brackets}
1/1212=0.00{0825} { 4 repeating digits in brackets}
1/121212=0.00{000825} { 6 repeating digits in brackets}
1/12121212=0.00{00000825} { 8 repeating digits in brackets}
1/1212121212=0.00{0000000825} { 10 repeating digits in brackets}
1/121212121212=0.00{000000000825} { 12 repeating digits in brackets}

15 = 3 * 5
1/15=0.{0{6} { 1 repeating digits in brackets}
1/1515=0.{0{0066} { 4 repeating digits in brackets}
1/151515=0.{0{000066} { 6 repeating digits in brackets}
1/15151515=0.{0{00000066} { 8 repeating digits in brackets}
1/1515151515=0.{0{0000000066} { 10 repeating digits in brackets}
1/151515151515=0.{0{000000000066} { 12 repeating digits in brackets}

16 = 2 * 2 * 2 * 2
1/16=0.0625{} { 0 repeating digits in brackets}
1/1616=0.0006{188} { 3 repeating digits in brackets}
1/161616=0.0000{061875} { 6 repeating digits in brackets}
1/16161616=0.0000{00061875} { 8 repeating digits in brackets}
1/1616161616=0.0000{0000061875} { 10 repeating digits in brackets}
1/161616161616=0.0000{000000061875} { 12 repeating digits in brackets}

18 = 2 * 3 * 3
1/18=0.0{5} { 1 repeating digits in brackets}
1/1818=0.0{0055} { 4 repeating digits in brackets}
1/181818=0.0{000055} { 6 repeating digits in brackets}
1/18181818=0.0{00000055} { 8 repeating digits in brackets}
1/1818181818=0.0{0000000055} { 10 repeating digits in brackets}
1/181818181818=0.0{000000000055} { 12 repeating digits in brackets}

20 = 2 * 2 * 5
1/20=0.05{} { 0 repeating digits in brackets}
1/2020=0.00{0495} { 4 repeating digits in brackets}
1/202020=0.00{000495} { 6 repeating digits in brackets}
1/20202020=0.00{00000495} { 8 repeating digits in brackets}
1/2020202020=0.00{0000000495} { 10 repeating digits in brackets}
1/202020202020=0.00{000000000495} { 12 repeating digits in brackets}

22 = 2 * 11
1/22=0.0{45} { 2 repeating digits in brackets}
1/2222=0.0{0045} { 4 repeating digits in brackets}
1/222222=0.0{000045} { 6 repeating digits in brackets}
1/22222222=0.0{00000045} { 8 repeating digits in brackets}
1/2222222222=0.0{0000000045} { 10 repeating digits in brackets}
1/222222222222=0.0{000000000045} { 12 repeating digits in brackets}

24 = 2 * 2 * 2 3
1/24=0.041{6} { 1 repeating digits in brackets}
1/2424=0.000{4125} { 4 repeating digits in brackets}
1/242424=0.000{004125} { 6 repeating digits in brackets}
1/24242424=0.000{00004125} { 8 repeating digits in brackets}
1/2424242424=0.000{0000004125} { 10 repeating digits in brackets}
1/242424242424=0.000{000000004125} { 12 repeating digits in brackets}

25 = 5 * 5
1/25=0.04{} { 0 repeating digits in brackets}
1/2525=0.00{0396} { 4 repeating digits in brackets}
1/252525=0.00{000396} { 6 repeating digits in brackets}
1/25252525=0.00{00000396} { 8 repeating digits in brackets}
1/2525252525=0.00}0000000396} { 10 repeating digits in brackets}
1/252525252525=0.00{000000000396} { 12 repeating digits in brackets}

27 = 3 * 3 * 3
1/27=0.{037} { 3 repeating digits in brackets}
1/2727=0.{000366703337} { 12 repeating digits in brackets}
1/272727=0.{000003666670333337} { 18 repeating digits in brackets}
1/27272727=0.{000000036666667033333337} { 24 repeating digits in brackets}
1/2727272727=0.{000000000366666666703333333337} { 30 repeating digits in brackets}
1/272727272727=0.{000000000003666666666670333333333337} { 36 repeating digits in brackets}

30 = 2 * 3 * 5
1/30=0.0{3} { 1 repeating digits in brackets}
1/3030=0.0{0033} { 4 repeating digits in brackets}
1/303030=0.0{000033} { 6 repeating digits in brackets}
1/30303030=0.0{00000033} { 8 repeating digits in brackets}
1/3030303030=0.0{0000000033} { 10 repeating digits in brackets}
1/303030303030=0.0{000000000033} { 12 repeating digits in brackets}

32 = 2 * 2 * 2 * 2 * 2
1/32=0.03125{} { 0 repeating digits in brackets}
1/3232=0.00030{9405} { 4 repeating digits in brackets}
1/323232=0.00000{309375} { 6 repeating digits in brackets}
1/32323232=0.00000{00309375} { 8 repeating digits in brackets}
1/3232323232=0.000000000309375} { 10 repeating digits in brackets}
1/323232323232=0.00000000000309375} { 12 repeating digits in brackets}

33 = 3 * 3 * 11
1/33=0.{03} { 2 repeating digits in brackets}
1/3333=0.{0003} { 4 repeating digits in brackets}
1/333333=0.{000003} { 6 repeating digits in brackets}
1/33333333=0.{00000003} { 8 repeating digits in brackets}
1/3333333333=0.{0000000003} { 10 repeating digits in brackets}
1/333333333333=0.{000000000003} { 12 repeating digits in brackets}

36 = 2 * 2 * 3 * 3
1/36=0.02{7} { 1 repeating digits in brackets}
1/3636=0.00{0275} { 4 repeating digits in brackets}
1/363636=0.00{000275} { 6 repeating digits in brackets}
1/36363636=0.00{00000275} { 8 repeating digits in brackets}
1/3636363636=0.00{0000000275} { 10 repeating digits in brackets}
1/363636363636=0.00{000000000275} { 12 repeating digits in brackets}

40 = 2 * 2 * 2 *5
1/40=0.025{} { 0 repeating digits in brackets}
1/4040=0.000{2475} { 4 repeating digits in brackets}
1/404040=0.000002475} { 6 repeating digits in brackets}
1/40404040=0.00000002475} { 8 repeating digits in brackets}
1/4040404040=0.0000000002475} { 10 repeating digits in brackets}
1/404040404040=0.000000000002475} { 12 repeating digits in brackets}

44 = 2 * 2 * 11
1/44=0.02{27} { 2 repeating digits in brackets}
1/4444=0.00{0225} { 4 repeating digits in brackets}
1/444444=0.00{000225} { 6 repeating digits in brackets}
1/44444444=0.00{00000225} { 8 repeating digits in brackets}
1/4444444444=0.00{0000000225} { 10 repeating digits in brackets}
1/444444444444=0.00{000000000225} { 12 repeating digits in brackets}

45 = 3 * 3 * 5
1/45=0.0{2} { 1 repeating digits in brackets}
1/4545=0.0{0022} { 4 repeating digits in brackets}
1/454545=0.0{000022} { 6 repeating digits in brackets}
1/45454545=0.0{00000022} { 8 repeating digits in brackets}

1/4545454545=0.0{0000000022} { 10 repeating digits in brackets}
1/454545454545=0.0{000000000022} { 12 repeating digits in brackets}

48 = 2 * 2 * 2 * 2 *3
1/48=0.0208{3} { 1 repeating digits in brackets}
1/4848=0.0002{0627} { 4 repeating digits in brackets}
1/484848=0.0000{020625} { 6 repeating digits in brackets}
1/48484848=0.0000{00020625} { 8 repeating digits in brackets}
1/4848484848=0.0000{0000020625} { 10 repeating digits in brackets}
1/484848484848=0.0000{000000020625} { 12 repeating digits in brackets}

50 = 2 * 5 * 5
1/50=0.02{} { 0 repeating digits in brackets}
1/5050=0.00{0198} { 4 repeating digits in brackets}
1/505050=0.00{000198} { 6 repeating digits in brackets}
1/50505050=0.00{00000198} { 8 repeating digits in brackets}
1/5050505050=0.00{0000000198} { 10 repeating digits in brackets}
1/505050505050=0.00{000000000198} { 12 repeating digits in brackets}

54 = 2 * 3 * 3 * 3
1/54=0.0{185} { 3 repeating digits in brackets}
1/5454=0.0{001833516685} { 12 repeating digits in brackets}
1/545454=0.0{000018333351666685} { 18 repeating digits in brackets}
1/54545454=0.0{000000183333335166666685} { 24 repeating digits in brackets}
1/5454545454=0.0{00000000183333333351666666685} { 30 repeating digits in brackets}
1/545454545454=0.0{0000000000183333333333351666666666685} { 36 repeating digits in brackets}

55 = 5 * 11
1/55=0.0{18} { 2 repeating digits in brackets}
1/5555=0.0{0018} { 4 repeating digits in brackets}
1/555555=0.0{000018} { 6 repeating digits in brackets}
1/55555555=0.0{00000018} { 8 repeating digits in brackets}
1/5555555555=0.0{0000000018} { 10 repeating digits in brackets}
1/555555555555=0.0{000000000018} { 12 repeating digits in brackets}

60 = 2 * 2 * 3 * 5
1/60=0.01{6} { 2 repeating digits in brackets}
1/6060=0.00{0165} { 4 repeating digits in brackets}
1/606060=0.00{000165} { 6 repeating digits in brackets}
1/60606060=0.00{00000165} { 8 repeating digits in brackets}
1/6060606060=0.00{0000000165} { 10 repeating digits in brackets}
1/606060606060=0.00{000000000165} { 12 repeating digits in brackets}

64-2 * 2 * 2 * 2 * 2 * 2
1/64=0.015625{} { 0 repeating digits in brackets}
1/6464=0.000154{7029} { 4 repeating digits in brackets}
1/646464=0.000001{546876} { 6 repeating digits in brackets}
1/64646464=0.000000{01546875} { 8 repeating digits in brackets}
1/6464646464=0.000000{0001546875} { 10 repeating digits in brackets}
1/646464646464=0.000000{000001546875} { 12 repeating digits in brackets}

66 = 2 * 3 * 11
1/66=0.0{15} { 2 repeating digits in brackets}
1/6666=0.0{0015} { 4 repeating digits in brackets}
1/666666=0.0{000015} { 6 repeating digits in brackets}
1/66666666=0.0{00000015} { 8 repeating digits in brackets}
1/6666666666=0.0{0000000015} { 10 repeating digits in brackets}
1/666666666666=0.0{000000000015} { 12 repeating digits in brackets}

72 = 2 * 2 * 2 * 3
1/72=0.013{8} { 1 repeating digits in brackets}

1/7272=0.000{1375} { 4 repeating digits in brackets}
1/727272=0.000{001375} { 6 repeating digits in brackets}
1/72727272=0.000{00001375} { 8 repeating digits in brackets}
1/7272727272=0.000{0000001375} { 10 repeating digits in brackets}
1/727272727272=0.000{000000001375} { 12 repeating digits in brackets}

75 = 3 * 5 * 5
1/75=0.01{3} { 1 repeating digits in brackets}
1/7575=0.00{0132} { 4 repeating digits in brackets}
1/757575=0.00{000132} { 6 repeating digits in brackets}
1/75757575=0.00{00000132} { 8 repeating digits in brackets}
1/7575757575=0.00{0000000132} { 10 repeating digits in brackets}
1/757575757575=0.00{000000000132} { 12 repeating digits in brackets}

80 = 2 * 2 * 2 * 2 * 5
1/80=0.0125{} { 0 repeating digits in brackets}
1/8080=0.0001{2376} { 4 repeating digits in brackets}
1/808080=0.0000{012375} { 6 repeating digits in brackets}
1/80808080=0.0000{00012375} { 8 repeating digits in brackets}
1/8080808080=0.0000{0000012375} { 10 repeating digits in brackets}
1/808080808080=0.0000{000000012375} { 12 repeating digits in brackets}

Family of numbers 81

Starting with the number 81 taking the reciprocal the next time add another 81 forming 8181 and taking the reciprocal of the new number. By continuing this process you can form a family of numbers.

1/ 81=0.{012345679012345679} { 18 repeating digits in brackets}
1/ 8181=0.{000122234445666788901112333455567779} { 36 repeating digits in brackets}
1/ 818181=0.{000001222223444445666667888890111112333334555556777779} { 54 repeating digits in brackets}
1/ 81818181=0.{000000012222222344444445666666678888889011111112333333345555555677777779} { 72 repeating digits in brackets}
1/ 8181818181=0.
{000000000122222222234444444445666666666678888888890111111111233333333334555555555677777777779} { 90 repeating digits in brackets}
1/ 818181818181=0.
{000000000001222222222223444444444445666666666666788888888889011111111111233333333333345555555555567
77777777779} { 108 repeating digits in brackets}
1/ 81818181818181=0.
{000000000000012222222222222344444444444445666666666666678888888888889011111111111112333333333333334
555555555555567777777777779} { 126 repeating digits in brackets}
1/ 8181818181818181=0.
{000000000000000122222222222222234444444444444445666666666666666678888888888888890111111111111111233
333333333333345555555555555556777777777777777779} { 144 repeating digits in brackets}
1/ 81818181818181818181=0.
{000000000000000001222222222222222223444444444444444445666666666666666666788888888888888888901111111
1111111111233333333333333333345555555555555555556777777777777777779} { 162 repeating digits in brackets}
1/ 818181818181818181818181=0.
{000000000000000000012222222222222222222344444444444444444445666666666666666666678888888888888888
889011111111111111111111233333333333333333333345555555555555555556777777777777777777779} { 180 repeating digits in brackets}
1/ 8181818181818181818181=0.
{000000000000000000000122222222222222222222234444444444444444444445666666666666666666666678888888
888888888888890111111111111111111111123333333333333333333333345555555555555555555555567777777777777777777
779} { 198 repeating digits in brackets}
1/ 81818181818181818181818181=0.
{000000000000000000000001222222222222222222222223444444444444444444444445666666666666666666666667
888888888888888888888888901111111111111111111111112333333333333333333333333345555555555555555555555567777
77777777777777777779} { 216 repeating digits in brackets}
1/ 818181818181818181818181818181=0.
{000000000000000000000000012222222222222222222222222234444444444444444444444444445666666666666666666
666666678888888888888888888888888890111111111111111111111111112333333333333333333333333333345555555555555555
55555555555567777777777777777777777777779} { 234 repeating digits in brackets}
1/ 8181818181818181818181818181818181=0.
{000000000000000000000000000012222222222222222222222222222234444444444444444444444444444445666666666666
666666666666666678888888888888888888888888888890111111111111111111111111111111233333333333333333333333333334
555555555555555555555555555556777777777777777777777777777779} { 252 repeating digits in brackets}
1/ 81818181818181818181818181818181818181=0.
{000000000000000000000000000000122222222222222222222222222222234444444444444444444444444444444445666666
666666666666666666666666678888888888888888888888888888888890111111111111111111111111111111112333333333333333333
333333333333345555555555555555555555555555555556777777777777777777777777777777779} { 270 repeating digits in brackets}
1/ 818181818181818181818181818181818181=0.
{000000000000000000000000000000001222222222222222222222222222222234444444444444444444444444444444445
666666666666666666666666666666678888888888888888888888888888888890111111111111111111111111111111112333333
333333333333333333333333333345555555555555555555555555555555556777777777777777777777777777777779} { 288 repeating digits in brackets}
1/ 8181818181818181818181818181818181818181=0.
{000000000000000000000000000000000122222222222222222222222222222222234444444444444444444444444444444
444445666666666666666666666666666666666666678888888888888888888888888888888890111111111111111111111111111

1111111233333333333333333333333333333333345555555555555555555555555555555556777777777777777777777
7777777777779} { 306 repeating digits in brackets}
1/ 818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444566666666666666666666666666666666667888888888888888888888888888888888890111111111111111
1111111111111111111233333333333333333333333333333333333345555555555555555555555555555555555556777777
7777777777777777777777777777779} { 324 repeating digits in brackets}
1/ 818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444445666666666666666666666666666666666666667888888888888888888888888888888888890111
1111111111111111111111111111111111233333333333333333333333333333333333345555555555555555555555555555555
5555555556777777777777777777777777777777777779} { 342 repeating digits in brackets}
1/ 818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444444444445666666666666666666666666666666666666667888888888888888888888888888888888888
888889011111111111111111111111111111111111111233333333333333333333333333333333333333345555555555555555
5555555555555555555555556777777777777777777777777777777777777779} { 360 repeating digits in brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444444444444444445666666666666666666666666666666666666667888888888888888888888888888888
888888888888888890111111111111111111111111111111111111111111233333333333333333333333333333333333333345
5555555555555555555555555555555555555556777777777777777777777777777777777777777779} { 378 repeating
digits in brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444444444444444444444445666666666666666666666666666666666666667888888888888888888888888
888888888888888888888888888890111111111111111111111111111111111111111111233333333333333333333333333333333
333333333333455555555555555555555555555555555555555556777777777777777777777777777777777777777777
7779} { 396 repeating digits in brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444444444444444444444444444566666666666666666666666666666666666666667888888888888888888
888888888888888888888888888888888888890111111111111111111111111111111111111111111233333333333333333333
333333333333333333333333334555555555555555555555555555555555555555555556777777777777777777777777777777
77777777777777777779} { 414 repeating digits in brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
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333333333333333333333333333333333333333333345555555555555555555555555555555555555555555556777777777
77777777777777777777777777777777777779} { 432 repeating digits in brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444444444444444444444444444444444444566666666666666666666666666666666666666666666666
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111233333333333333333333333333333333333333333333333345555555555555555555555555555555555555555555555
5555556777777777777777777777777777777777777777777777779} { 450 repeating digits in brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
4444444444444444444444444444444444444444444444444444566666666666666666666666666666666666666666666
666666666666667888888888888888888888888888888888888888888888888888888890111111111111111111111111111111
111111111111111112333333333333333333333333333333333333333333333333333333345555555555555555555555555555
5555555555555555555555556777777777777777777777777777777777777777777777777779} { 468 repeating digits in
brackets}
1/ 818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000122222222222222222222222222222222223444444444444444444444444
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666666666666666666666667888888888888888888888888888888888888888888888888888890111111111111111111111111
111111111111111111111111111111112333333333333333333333333333333333333333333333333333333345555555555555
5555555555555555555555555555555555555555556777777777777777777777777777777777777777777777777777777779}
{ 486 repeating digits in brackets}
1/ 818181818181818181818181818181818181818181=0.

{0000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222222
2222222222222223444444444444444444444444444444444444444444444444444444444456666666666666666666666666
6666666666666666666666666666666678888888888888888888888888888888888888888888888888888889011111111111
1111111111111111111111111111111111111111111123333333333333333333333333333333333333333333333333333333345
5555555555555555555555555555555555555555555555555555555677777777777777777777777777777777777777777777
77777777777779} { 504 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222222
2222222222222222222234444444444444444444444444444444444444444444444444444444456666666666666666666
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1111111111111111111111111111111111111111111111111111111123333333333333333333333333333333333333333333
3333333333345555555555555555555555555555555555555555555555555555555555677777777777777777777777777777
77777777777777777777777777777779} { 522 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
2222222222222222222222223444444444444444444444444444444444444444444444444444444444456666666666666
6666666666666666666666666666666666666666666667888888888888888888888888888888888888888888888888888888
8888888890111111111111111111111111111111111111111111111111111111111111123333333333333333333333333333
3333333333333333333333333345555555555555555555555555555555555555555555555555555555555677777777777
77777777777777777777777777777777777777777777779} { 540 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
2222222222222222222222222223444444444444444444444444444444444444444444444444444444444456666666
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8888888888888888889011111111111111111111111111111111111111111111111111111111111111111123333333333333333333333
3333333333333333333333333333333333333345555555555555555555555555555555555555555555555555555555555555
55567777777777777777777777777777777777777777777777777777777777779} { 558 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
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3333333333333333333333333333333333333333333333333333345555555555555555555555555555555555555555555555
55555555555555555556777777777777777777777777777777777777777777777777777777777777777779} { 576
repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
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2333333333333333333333333333333333333333333333333333333333333333333333333333333333345555555555555555555555555555555
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77779} { 594 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
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8888888888888888888888888888888888888888888888888888888888890111111111111111111111111111111111111111111111111111111111
1111111111111233333333333333333333333333333333333333333333333333333333333333333333333333333333345555555555555555
5555555555555555555555555555555555555555555555555555555555555555555555555555555555555555555677777777777777777777777777777777777777
77777777777777777777779} { 612 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
2222222222222222222222222222222222222222223444444444444444444444444444444444444444444444444444444444
4444444444444444566666666666666666666666666666666666666666666666666666666666666666666666667888888888
8888888888888888888888888888888888888888888888888888888888888888890111111111111111111111111111111111111111111111111111
1111111111111111111111111112333333333333333333333333333333333333333333333333333333333333333333333333333455
5555555555555555555555555555555555555555555555555555555555555555555555555555555555555555555677777777777777777777777777777777777
77777777777777777777777777777777777777779} { 630 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000012222222222222222222222222222222222222
2222222222222222222222222222222222222222222222223444444444444444444444444444444444444444444444444444

444444444444444444444566666666666

4444444444444444444444444444444444444444444444444444444444444444444566666666666666666666666666666666
6666666666666666666666666666666666666666666666666666666666666666666788888888888888888888888888888888888888888888
8888888888888888888888888888888888888888888888888890111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111112333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333
3333333334555555555555555555555555555555555555555555555555555555555555555555555555555555555555555555555555555567
7777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777779} { 774
repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000122222222
2222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222234444444444444444
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1111111111111111111111111111111111111111112333333333333333333333333333333333333333333333333333333333333333333333
3333333333333333333333334555555555555555555555555555555555555555555555555555555555555555555555555555555555555555
5555555555555556777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777
7777779} { 792 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181=0.
{00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001222222
2222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222234444444444444444
4444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444566666666666666666
6666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666678888888888888888
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1111111111111111111111111111111111111111111111112333333333333333333333333333333333333333333333333333333333333333
3333333333333333333333333333333333333333334555555555555555555555555555555555555555555555555555555555555555555555
5555555555555555555555555555555555555556777777777777777777777777777777777777777777777777777777777777777777777777
7777777777777777777777779} { 810 repeating digits in brackets}
1/ 81818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000012222
2222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222223444444444
4444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444566666666666666
6666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666678888888888888888
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1111111111111111111111111111111111111111111111112333333333333333333333333333333333333333333333333333333333333333
3333333333333333333333333333333333333333333333334555555555555555555555555555555555555555555555555555555555555555
5555555555555555555555555555555555555555555555556777777777777777777777777777777777777777777777777777777777777777
7777777777777777777777777777777777777779} { 828 repeating digits in brackets}
1/
81818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000122
2222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222344444
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1111111111111111111111111111111111111111111111111111111111111111112333333333333333333333333333333333333333333333
3333333333333333333333333333333333333333333333333333333333333333334555555555555555555555555555555555555555555555
5555555555555555555555555555555555555555555555555555555555555556777777777777777777777777777777777777777777777777
7777777777777777777777777777777777777777777777777779} { 846 repeating digits in brackets}
1/
8181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181=
0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
2222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222234
4444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444566
6666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666678888
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1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111112333333333333333333
3333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333334555555555555555555
5555555555555555555555555555555555555555555555555555555555555555555555555556777777777777777777777777777777777777
7777777777777777777777777777777777777777777777777777777777777777777777777779} { 864 repeating digits in
brackets}
1/

818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818
1=0.
{0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0122222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222
2234444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444444
4445666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666666
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8888901111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111233333
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7777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777777779} {
882 repeating digits in brackets}
1/
818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818
181=0.
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8888888888888901111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111112333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333
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7777777777777779} { 900 repeating digits in brackets}

88 = 2 * 2 * 2 * 11
1/88=0.011{36} { 2 repeating digits in brackets}
1/8888=0.000{1125} { 4 repeating digits in brackets}
1/888888=0.000{001125} { 6 repeating digits in brackets}
1/88888888=0.000{00001125} { 8 repeating digits in brackets}
1/8888888888=0.000{0000001125} { 10 repeating digits in brackets}
1/888888888888=0.000{000000001125} { 12 repeating digits in brackets}

90 = 2 * 3 * 3 * 5
1/90=0.0{1} { 1 repeating digits in brackets}
1/9090=0.0{0011} { 4 repeating digits in brackets}
1/909090=0.0{000011} { 6 repeating digits in brackets}
1/90909090=0.0{00000011} { 8 repeating digits in brackets}
1/9090909090=0.0{0000000011} { 10 repeating digits in brackets}
1/909090909090=0.0{000000000011} { 12 repeating digits in brackets}

96 = 2 * 2 * 2 * 2 * 2 * 3
1/96=0.01041{6} { 1 repeating digits in brackets}
1/9696=0.00010{3135} { 4 repeating digits in brackets}
1/969696=0.00000{103125} { 6 repeating digits in brackets}
1/96969696=0.00000{00103125} { 8 repeating digits in brackets}
1/9696969696=0.00000{0000103125} { 10 repeating digits in brackets}
1/969696969696=0.00000{000000103125} { 12 repeating digits in brackets}

99 = 3 * 3 * 11
1/99=0.{01} { 2 repeating digits in brackets}
1/9999=0.{0001} { 4 repeating digits in brackets}
1/999999=0.{000001} { 6 repeating digits in brackets}
1/99999999=0.{00000001} { 8 repeating digits in brackets}
1/9999999999=0.{0000000001} { 10 repeating digits in brackets}
1/999999999999=0.{000000000001} { 12 repeating digits in brackets}

100 = 2 * 2 * 5 * 5
1/100=0.01{} { 0 repeating digits in brackets}

1/100100=0.00{000999} { 6 repeating digits in brackets}
1/100100100=0.00{000000999} { 9 repeating digits in brackets}
1/100100100100=0.00{000000000999} { 12 repeating digits in brackets}
1/100100100100100=0.00{000000000000999} { 15 repeating digits in brackets}
1/100100100100100100=0.00{000000000000000999} { 18 repeating digits in brackets}

108 =2 * 2 * 3 * 3 * 3
1/108=0.00{925} { 3 repeating digits in brackets}
1/108108=0.00{000925} { 6 repeating digits in brackets}
1/108108108=0.00{000000925} { 9 repeating digits in brackets}
1/108108108108=0.00}000000000925} { 12 repeating digits in brackets}
1/108108108108108=0.00}000000000000925} { 15 repeating digits in brackets}
1/108108108108108108=0.00{000000000000000925} { 18 repeating digits in brackets}

120 = 2 * 2 * 2 * 3 * 5
1/120=0.008{3} { 1 repeating digits in brackets}
1/120120=0.000{008325} { 6 repeating digits in brackets}
1/120120120=0.000{000008325} { 9 repeating digits in brackets}
1/120120120120=0.000{000000008325} { 12 repeating digits in brackets}
1/120120120120120=0.000{000000000008325} { 15 repeating digits in brackets}
1/120120120120120120=0.000{000000000000008325} { 18 repeating digits in brackets}

125 = 5 * 5 * 5
1/125=0.008{} { 0 repeating digits in brackets}
1/125125=0.000{007992} { 6 repeating digits in brackets}
1/125125125=0.000{000007992} { 9 repeating digits in brackets}
1/125125125125=0.000{000000007992} { 12 repeating digits in brackets}
1/125125125125125=0.000{000000000007992} { 15 repeating digits in brackets}
1/125125125125125125=0.000}000000000000007992} { 18 repeating digits in brackets}

128 = 2 * 2 * 2 * 2 * 2 * 2 * 2
1/128=0.0078125{} { 0 repeating digits in brackets}
1/128128=0.0000078{046953} { 6 repeating digits in brackets}
1/128128128=0.0000000{078046875} { 9 repeating digits in brackets}
1/128128128128=0.0000000{000078046875} { 12 repeating digits in brackets}
1/128128128128128=0.00000000000000078046875} { 15 repeating digits in brackets}
1/128128128128128128=0.00000000000000000078046875} { 18 repeating digits in brackets}

135 = 5 * 3 * 3 * 3
1/135=0.0{074} { 3 repeating digits in brackets}
1/135135=0.0{00074} { 6 repeating digits in brackets}
1/135135135=0.0{000000074} { 9 repeating digits in brackets}
1/135135135135=0.0{000000000074} { 12 repeating digits in brackets}
1/135135135135135=0.0{000000000000074} { 15 repeating digits in brackets}
1/135135135135135135=0.0{000000000000000074} { 18 repeating digits in brackets}

144 = 2 * 2 * 2 * 2 * 3 * 3
1/144=0.0069{4} { 1 repeating digits in brackets}
1/144144=0.0000{069375} { 6 repeating digits in brackets}
1/144144144=0.0000{000069375} { 9 repeating digits in brackets}
1/144144144144=0.0000[000000069375} { 12 repeating digits in brackets}
1/144144144144144=0.0000[000000000069375} { 15 repeating digits in brackets}
1/144144144144144144=0.0000{000000000000069375} { 18 repeating digits in brackets}

150 = 2 * 3 * 5 * 5
1/150=0.00{6} { 2 repeating digits in brackets}
1/150150=0.00{000666} { 6 repeating digits in brackets}
1/150150150=0.00{000000666} { 9 repeating digits in brackets}
1/150150150150=0.00{000000000666} { 12 repeating digits in brackets}
1/150150150150150=0.00{000000000000666} { 15 repeating digits in brackets}
1/150150150150150150=0.00{000000000000000666} { 18 repeating digits in brackets}

160 = 2 * 2 * 2 * 2 * 2 * 5
1/160=0.00625{} { 0 repeating digits in brackets}
1/160160=0.00000{624375} { 6 repeating digits in brackets}
1/160160160=0.00000{000624375} { 9 repeating digits in brackets}
1/160160160160=0.00000{000000624375} { 12 repeating digits in brackets}
1/160160160160160=0.00000{000000000624375} { 15 repeating digits in brackets}
1/160160160160160160=0.00000{000000000000624375} { 18 repeating digits in brackets}

162 = 2 * 3 * 3 * 3 * 3
1/162=0.0{061728395} { 9 repeating digits in brackets}
1/162162=0.0{000061666728333395} { 18 repeating digits in brackets}
1/162162162=0.0{000000061666666728333333395} { 27 repeating digits in brackets}
1/162162162162=0.0{000000000061666666666728333333333395} { 36 repeating digits in brackets}
1/162162162162162=0.0{000000000000061666666666666728333333333333395} { 45 repeating digits in brackets}
1/162162162162162162=0.0{000000000000000061666666666666666728333333333333333395} { 54 repeating digits in brackets}

180 = 2 * 2 * 3 * 3 * 5
1/180=0.00{5} { 1 repeating digits in brackets}
1/180180=0.00{000555} { 6 repeating digits in brackets}
1/180180180=0.00{000000555} { 9 repeating digits in brackets}
1/180180180180=0.00{000000000555} { 12 repeating digits in brackets}
1/180180180180180=0.00{000000000000555} { 15 repeating digits in brackets}
1/180180180180180180=0.00{000000000000000555} { 18 repeating digits in brackets}

192 = 2 * 2 * 2 * 2 * 2 * 2 * 2 * 3
1/192=0.005208{3} { 1 repeating digits in brackets}
1/192192=0.000005{203130} { 6 repeating digits in brackets}
1/192192192=0.000000{005203125} { 9 repeating digits in brackets}
1/192192192192=0.000000{000005203125} { 12 repeating digits in brackets}
1/192192192192192=0.000000{000000005203125} { 15 repeating digits in brackets}

200 =2 * 2 * 2 * 5 * 5
1/200=0.005{} { 0 repeating digits in brackets}
1/200200=0.000{004995} { 6 repeating digits in brackets}
1/200200200=0.000{000004995} { 9 repeating digits in brackets}
1/200200200200=0.000{000000004995} { 12 repeating digits in brackets}
1/200200200200200=0.000{000000000004995} { 15 repeating digits in brackets}
1/200200200200200200=0.000{000000000000004995} { 18 repeating digits in brackets}

Family of numbers 243

Starting with the number 243, 3 raised to the 5 power taking the reciprocal the next time add another 243 forming 243243 and taking the reciprocal of the new number. By continuing this process you can form a family of numbers.

1/243=0.{004115226337448559670781893} { 27 repeating digits in brackets}
1/243243=0.{000004111115222226333337444448555559666670777781888893} { 54 repeating digits in brackets}
1/243243243=0.{000000004111111115222222226333333337444444448555555559666666670777777781888888893}
{ 81 repeating digits in brackets}
1/243243243243=0.
{000000000004111111111152222222222263333333333374444444444485555555555596666666666707777777777818
88888888893} { 108 repeating digits in brackets}
1/243243243243243=0.
{000000000000004111111111111152222222222222263333333333333374444444444444485555555555555596666666
66666707777777777777781888888888888893} { 135 repeating digits in brackets}
1/243243243243243243=0.
{000000000000000004111111111111111152222222222222222263333333333333333374444444444444444485555555
55555555596666666666666666707777777777777777781888888888888888893} { 162 repeating digits in brackets}
1/2432432432432432432 43=0.
{000000000000000000004111111111111111111152222222222222222222263333333333333333333374444444444444444
44444855555555555555555555596666666666666666666707777777777777777777781888888888888888888893} { 189
repeating digits in brackets}
1/24324324324324324324 3243=0.
{000000000000000000000004111111111111111111111152222222222222222222222263333333333333333333333374444
44444444444444444485555555555555555555555555596666666666666666666666707777777777777777777777818888
8888888888888888893} { 216 repeating digits in brackets}
1/243243243243243243243243243=0.
{000000000000000000000000004111111111111111111111111152222222222222222222222222263333333333333333333
333333374444444444444444444444444485555555555555555555555555596666666666666666666666666707777777
77777777777777777781888888888888888888888888893} { 243 repeating digits in brackets}
1/2432432432432432432432432432 43=0.
{000000000000000000000000000004111111111111111111111111111152222222222222222222222222222263333333333
333333333333333333374444444444444444444444444444485555555555555555555555555555596666666666666666666
66666666667077777777777777777777777777781888888888888888888888888888893} { 270 repeating digits in
brackets}
1/24324324324324324324324324324 3243=0.
{000000000000000000000000000000004111111111111111111111111111111152222222222222222222222222222222263
333333333333333333333333333333374444444444444444444444444444444485555555555555555555555555555555555
96666666666666666666666666666667077777777777777777777777777777781888888888888888888888888888888888
893} { 297 repeating digits in brackets}
1/243243243243243243243243243243243=0.
{000000000000000000000000000000000004111111111111111111111111111111111152222222222222222222222222222
22222263333333333333333333333333333333333374444444444444444444444444444444444485555555555555555555
55555555555555555596666666666666666666666666666666666666670777777777777777777777777777777777818888888
888888888888888888888888893} { 324 repeating digits in brackets}
1/243243243243243243243243243243243243=0.
{000000000000000000000000000000000000004111111111111111111111111111111111111152222222222222222222222
22222222222222222633333333333333333333333333333333333333374444444444444444444444444444444444444448555
55555555555555555555555555555555555596666666666666666666666666666666666666670777777777777777777777777
77777777777777781888888888888888888888888888888888888893} { 351 repeating digits in brackets}
1/2432432432432432432432432432432432432 43=0.
{000000000000000000000000000000000000000004111111111111111111111111111111111111111152222222222222222
22222222222222222222222263333333333333333333333333333333333333333374444444444444444444444444444444
44444444444485555555555555555555555555555555555555555596666666666666666666666666666666666666667070
77777777777777777777777777777777777777781888888888888888888888888888888888888888893} { 378 repeating
digits in brackets}
1/2432432432432432432432432432432432432432 43=0.
{000000000000000000000000000000000000000000004111111111111111111111111111111111111111111152222222222

2222222222222222222222222222222633333333333333333333333333333333333333333374444444444444444444
4444444444444444444444444485555555555555555555555555555555555555555555555596666666666666666666666666666
6666666666666666670777777777777777777777777777777777777777777818888888888888888888888888888888888
888888888893} { 405 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000411111111111111111111111111111111111111111111111152222222
2222222222222222222222222222222222222222222633333333333333333333333333333333333333333333333333374444444
4444444444444444444444444444444444444444444855555555555555555555555555555555555555555555555555596666666666
6666666666666666666666666666666666666666670777777777777777777777777777777777777777777777777818888888888
888888888888888888888888888888888888888893} { 432 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000041111111111111111111111111111111111111111111111111152
2222222222222222222222222222222222222222222222222633333333333333333333333333333333333333333333333333
3337444444444444444444444444444444444444444444444444855555555555555555555555555555555555555555555555
5555555596666666666666666666666666666666666666666666666666670777777777777777777777777777777777777777
7777777777778188888888888888888888888888888888888888888888888893} { 459 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000000041111111111111111111111111111111111111111111111111
1111522222222222222222222222222222222222222222222222222222263333333333333333333333333333333333333333
3333333333333337444444444444444444444444444444444444444444444444444444485555555555555555555555555555
5555555555555555555555555596666666666666666666666666666666666666666666666666666670777777777777777777
7777777777777777777777777777777777778188888888888888888888888888888888888888888888888888888893}
{ 486 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000000041111111111111111111111111111111111111111111111111
1111111111522222222222222222222222222222222222222222222222222222222222263333333333333333333333333333333
3333333333333333333333333337444444444444444444444444444444444444444444444444444444485555555555555555
5555555555555555555555555555555555555555555596666666666666666666666666666666666666666666666666666666
6667077777777777777777777777777777777777777777777777777778188888888888888888888888888888888888888
888888888888888888893} { 513 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000000041111111111111111111111111111111111111111111111111
1111111111111111152222222222222222222222222222222222222222222222222222222263333333333333333333333333
3333333333333333333333333333333333333337444444444444444444444444444444444444444444444444444444444444
4855555555555555555555555555555555555555555555555555555555555596666666666666666666666666666666666666
6666666666666666666666670777777777777777777777777777777777777777777777777777777781888888888888888
888888888888888888888888888888888888888888888893} { 540 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000000000000041111111111111111111111111111111111111111111
1111111111111111111111115222222222222222222222222222222222222222222222222222222222222222222263333333333333
3333333333333333333333333333333333333333333333333374444444444444444444444444444444444444444444444444
4444444444444444485555555555555555555555555555555555555555555555555555555555555555555596666666666666666
6666666666666666666666666666666666666666670777777777777777777777777777777777777777777777777777777777
7777777778188888888888888888888888888888888888888888888888888888888888888893} { 567 repeating digits in
brackets}
1/2432432432432432432432432432432432432432432432432432432432432432=0.
{0000000000000000000000000000000000000000000000000000000000041111111111111111111111111111111111111111
1111111111111111111111111111115222222222222222222222222222222222222222222222222222222222222222222263333
3333333333333333333333333333333333333333333333333333333333333333374444444444444444444444444444444444444
4444444444444444444444444444444855555555555555555555555555555555555555555555555555555555555555555559
6666666666666666666666666666666666666666666666666666666666666666670777777777777777777777777777777777777
7777777777818888888888888888888888888888888888888888888888888888888888888888888888888888888888888
8893} { 594 repeating digits in brackets}
1/2432432432432432432432432432432432432432432432432432432432432432432432432432432432432432432432432432= 0.
{0000000000000000000000000000000000000000000000000000000000000000041111111111111111111111111111111111
1111111111111111111111111111111111111111522222222222222222222222222222222222222222222222222222222222222
2222263333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333333374
4444444444444444444444444444444444444444444444444444855555555555555555555555555555555555555555555555
5555555555555555555596666666666666666666666666666666666666666666666666666666666666666666666666666670777
7777777777777777777777777777777777777777777777777777777778188888888888888888888888888888888888888888
888888888888888888888888888888888888888888888888888888888888

{0000000000000000000000000000000000000000000000000000000000000000000000000000000041111111111111111111111111111
1111111111111111111111111111111111111111111115222222222222222222222222222222222222222222222222222222222222222222
2222222222222633333333333333333333333333333333333333333333333333333333333333333333333333333333333333333744444444444
4444444444444444444444444444444444444444444444444444444444444485555555555555555555555555555555555555555555
5555555555555555555555555555555555555596666666666666666666666666666666666666666666666666666666666666666666666666
6666666667077777777777777777777777777777777777777777777777777777777777777777777777777781888888888888888888
8888888888888888888

888888888888888888888893} { 810 repeating digits in brackets}
1/2432432432

{0000000013703703717407407421111111124814814828518518532222222235925925939629629643333333347037037
0507407407544444444581481481618518518655555555692592592962962962976666666680370370384074074087777777
7791481481495185185198888888902592592606296296311 { 243 repeating digits in brackets}
1/729729729729=0.
{00000000000137037037037174074074074211111111111124814814814828518518518532222222222235925925925939
6296296296433333333333470370370370507407407407544444444444581481481481618518518518655555555555692
5925925927296296296297666666666668037037037038407407407408777777777779148148148149518518518519888
8888888902592592592606296296296311 { 324 repeating digits in brackets}
1/729729729729729=0.
{000000000000001370370370370371740740740740742111111111111112481481481481482851851851853222222222
2222223592592592592593962962962962964333333333333333470370370370370507407407407407544444444444445
8148148148148161851851851851865555555555555569259259259259272962962962962976666666666666680370370
3703703840740740740740877777777777777914814814814814951851851851851988888888888888902592592592592 6
0629629629629631 { 405 repeating digits in brackets}
1/7297297297297297297=0.
{0000000000000000013703703703703703717407407407407407421111111111111111124814814814814814828518518
5185185185322222222222222222223592592592592592593962962962962962964333333333333333333470370370370370
3705074074074074074075444444444444444444581481481481481481618518518518518518655555555555555555692 5
9
2592592592592729629629629629629766666666666666666803703703703703703840740740740740740877777777777
7777779148148148148148149518518518518518518988888888888888888902592592592592592592606296296296296296 3 1
| { 486 repeating digits in brackets}
1/72972972972972972972 9=0.
{0000000000000000000013703703703703703703717407407407407407407421111111111111111111124814814814814814
8148285185185185185185185322222222222222222222223592592592592592592593962962962962962962964333333
3333333333333470370370370370370370370507407407407407407407544444444444444444444458148148148148148148
1618518518518518518518655555555555555555555692592592592592592592729629629629629629629629766666666666
6666666680370370370370370370384074074074074074074087777777777777777777779148148148148148149518518
5185185185185185198888888888888888888902592592592592592592606296296296296296296 3 1 | { 567 repeating
digits in brackets}
1/72972972972972972972 9=0.
{0000000000000000000000013703703703703703703703717407407407407407407407421111111111111111111111124814
8148148148148148148285185185185185185185185322222222222222222222222223592592592592592592593962962
6296296296296296296433333333333333333333333470370370370370370370370507407407407407407407407544444
4444444444444444444581481481481481481481481481618518518518518518518518655555555555555555555555692592 5
9
2592592592592592729629629629629629629629629766666666666666666666666666803703703703703703703703840740 7
4
0740740740740740877777777777777777777777779148148148148148148148149518518518518518518518519888888888
8888888888888888902592592592592592592592592606296296296296296296296 3 1 | { 648 repeating digits in brackets} These
numbers although have some pattens not a constant like the 740, 407, 481 or 851 etc.

Starting with 3^7 = 3 * 3 * 3 * 3 * 3 * 3 * 3 this number does not have a good patteren.

1/ 2187= 0.
{0004572473708276177411979881115683584819387288523090992226794695930498399634202103337905807041 60
9510745313214449016918152720621856424325560128029263831732967535436671239140374942844078646547782
3502514860539551897576588934613625971650663008687700045724737082761774119798811156835848193872885
2309099222679469593049839963420210333790580704160951074531321444901691815272062185642432556012802
9263831732967535436671239140374942844078646547782350251486053955189757658893461362597165066300868
7700045724737082761774119798811156835848193872885230909922267946959304983996342021033379058070416
0951074531321444901691815272062185642432556012802926383173296753543667123914037494284407864654778
2350251486053955189757658893461362597165066300868 77} { 729 repeating digits in brackets} as you can see there
is no goo pattern to this number.