Short repeating digits under 200,000,000

Here is a list of all the prime numbers under 200,000,000 who have less than 200 repeating digits. OK I may have gone a little past with a searched out to 5,000,000,000 and found some extra new values. The 1/3 is the reciprocal of the prime number, the 0.{3} is the repeating digits “1 repeating digits” tell you how many digits are in the repeating group. The “r=1” is the remainder from long division was 1 which will always terminate the division of a prime number. The “One/2” is the fraction of max repeating digits to actual repeating digits. There are 169 entries under 100 digits while by adding the next 100 digits extra 130 entries have been added with the three extras at the end. In all 299 entries with the last 3 counted too. The last section adds another 168 entries for a total of 467 values

1/3=0.{3} 1 repeating digits r=1 One/2
1/11=0.{09} 2 repeating digits r=1 One/5
1/37=0.{027} 3 repeating digits r=1 One/12
1/101=0.{0099} 4 repeating digits r=1 One/25
1/41=0.{02439} 5 repeating digits r=1 One/8
1/271=0.{00369} 5 repeating digits r=1 One/54
1/7=0.{142857} 6 repeating digits r=1 One/1
1/13=0.{076923} 6 repeating digits r=1 One/2
1/239=0.{0041841} 7 repeating digits r=1 One/34
1/4649=0.{0002151} 7 repeating digits r=1 One/664
1/73=0.{01369863} 8 repeating digits r=1 One/9
1/137=0.{00729927} 8 repeating digits r=1 One/17
1/333667=0.{000002997} 9 repeating digits r=1 One/37074
1/9091=0.{0001099989} 10 repeating digits r=1 One/909
1/21649=0.{00004619151} 11 repeating digits r=1 One/1968
1/513239=0.{00000194841} 11 repeating digits r=1 One/46658
1/9901=0.{000100999899} 12 repeating digits r=1 One/825
1/53=0.{0188679245283} 13 repeating digits r=1 One/4
1/79=0.{0126582278481} 13 repeating digits r=1 One/6
1/265371653=0.{0000000037683} 13 repeating digits r=1 One/20413204
1/909091=0.{00000109999989} 14 repeating digits r=1 One/64935
1/31=0.{032258064516129} 15 repeating digits r=1 One/2
1/2906161=0.{000000344096559} 15 repeating digits r=1 One/193744
1/17=0.{0588235294117647} 16 repeating digits r=1 One/1
1/5882353=0.{0000001699999983} 16 repeating digits r=1 One/367647
1/2071723=0.{00000048269001213} 17 repeating digits r=1 One/121866
1/19=0.{052631578947368421} 18 repeating digits r=1 One/1
1/52579=0.{000019018999980981} 18 repeating digits r=1 One/2921
1/3541=0.{00028240609997175939} 20 repeating digits r=1 One/177
1/27961=0.{00003576409999642359} 20 repeating digits r=1 One/1398
1/43=0.{023255813953488372093} 21 repeating digits r=1 One/2
1/1933=0.{000517330574236937403} 21 repeating digits r=1 One/92
1/10838689=0.{000000092262080773791} 21 repeating digits r=1 One/516128
1/23=0.{043478260869565217391 3} 22 repeating digits r=1 One/1
1/4093=0.{0002443195699975568043} 22 repeating digits r=1 One/186
1/8779=0.{0001139081899988609181} 22 repeating digits r=1 One/399
1/99990001=0.{000000010000999999989999} 24 repeating digits r=1 One/4166250
1/21401=0.{000046726788467828606139 9} 25 repeating digits r=1 One/856

1/25601=0.{0000390609741806960665599} 25 repeating digits r=1 One/1024
1/859=0.{0011641443538998835855646 1} 26 repeating digits r=1 One/33
1/1058313049=0.{00000000094489999999990551} 26 repeating digits r=1 One/40704348
1/757=0.{0013210039630118890356671 07} 27 repeating digits r=1 One/28
1/29=0.{034482758620689655172413793 1} 28 repeating digits r=1 One/1
1/281=0.{0035587188612099644128113879} 28 repeating digits r=1 One/10
1/121499449=0.{0000000082304899999999176951} 28 repeating digits r=1 One/4339266
1/3191=0.{0003133813851457223440927608 9} 29 repeating digits r=1 One/110
1/16763=0.{0000596551929845493050170017 3} 29 repeating digits r=1 One/578
1/43037=0.{0000232358203406371261937402 7} 29 repeating digits r=1 One/1484
1/62003=0.{0000161282518587810267245133 3} 29 repeating digits r=1 One/2138
1/211=0.{0047393364928909952606635071 09} 30 repeating digits r=1 One/7
1/241=0.{0041493775933609958506224066 39} 30 repeating digits r=1 One/8
1/2161=0.{0004627487274409995372512725 59} 30 repeating digits r=1 One/72
1/2791=0.{0003582945180938731637405947 689} 31 repeating digits r=1 One/90
1/6943319=0.{0000001440233409987356190893721} 31 repeating digits r=1 One/223978
1/353=0.{0028328611898016997167138810 1983} 32 repeating digits r=1 One/11
1/449=0.{0022271714922048997772828507 7951} 32 repeating digits r=1 One/14
1/641=0.{0015600624024960998439937597 5039} 32 repeating digits r=1 One/20
1/1409=0.{0007097232079488999290276792 0511} 32 repeating digits r=1 One/44
1/69857=0.{0000143149576992999985685042 3007} 32 repeating digits r=1 One/2183
1/67=0.{0149253731343283582089552238805 97} 33 repeating digits r=1 One/2
1/103=0.{0097087378640776699029126213592 233} 34 repeating digits r=1 One/3
1/4013=0.{0002491901320707699975080986792 923} 34 repeating digits r=1 One/118
1/71=0.{0140845070422535211267605633802 8169} 35 repeating digits r=1 One/2
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1/83=0.{0120481927710843373493975903614457831325 3} 41 repeating digits r=1 One/2
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1/127=0.{0078740157480314960629921259842519685039 37} 42 repeating digits r=1 One/3
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1/459691=0.{0000021753743275374109999978246256724625 89} 42 repeating digits r=1 One/10945
1/173=0.{0057803468208092485549132947976878612716763} 43 repeating digits r=1 One/4
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1/1491383821=0.{0000000006705182032412566986000580999999999329481796758743301399941 9} 68 repeating digits r=1 One/21932115
1/277=0.{0036101083032490974729241877256317689530685920577617328519855595667 87} 69 repeating digits r=1 One/4
1/4147571=0.{00000024110497445372243175583974330999999758895025546277568244160256 69} 70 repeating digits r=1 One/59251
1/3169=0.{0003155569580309245818870306090249289996844430419690754181129693909750 71} 72 repeating digits r=1 One/44
1/98641=0.{0000101377723259091047333258989669609999898622276740908952666741010330 39} 72 repeating digits r=1 One/1370
1/7253=0.{0001378739831793740521163656418033916999862126016820625947883634358196608 3} 74 repeating digits r=1 One/98
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1/5237=0.{0001909490166125644452931067405002864235249188466679396601107504296352873 7827} 77 repeating digits r=1 One/68
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1/157=0.{0063694267515923566878980891719745222929936305732484076433121019108280254 77707} 78 repeating digits r=1 One/2
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1/163=0.{0061349693251533742331288343558282208588957055214723926380368098159509202 45398773} 81 repeating digits r=1 One/2
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1/17837=0.{0000560632393339687167124516454560744519818355104557941357851656668722 3187755788529461232 27} 91 repeating digits r=1 One/196
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1/191=0.{0052356020942408376963350785340314136125654450261780104712041884816753926 7015706806282722513089} 95 repeating digits r=1 One/2

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1/60101=0.{000016638658258598026655130530274038701519109499009999833613417414019733448694697259612984808905 0099} 100 repeating digits r=1 One/601
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1/331=0.{003021148036253776435045317220543806646525679758308157099697885196374622356495468277945619335347432024169184 29} 110 repeating digits r=1 One/3
1/5171=0.{000193386192225875072519822084703152194933281763682073099980661380777412492748017791529684780506671823631792 69} 110 repeating digits r=1 One/47
1/113=0.{008849557522123893805309734513274336283185840707964601769911504424778761061946902654867256637168141592920353982 3} 112 repeating digits r=1 One/1
1/227=0.{004405286343612334801762114537444933920704845814977973568281938325991189427312775330396475770925110132158590308 37} 113 repeating digits r=1 One/2

1/1458973=0.{00000068541364370690890098720127103106089009186599066603699999931458635629309109901279872896893910990813400933396 3} 114 repeating digits r=1 One/12798
1/31511=0.{00003173494970010472533401034559360223414045888737266351432832978959728348830567103551140871441718764875757671924 09} 115 repeating digits r=1 One/274
1/349=0.{00286532951289398280802292263610315186246418338108882521489971346704871060171919770773638968481375358166189111747851} 116 repeating digits r=1 One/3
1/38861=0.{00002573273976480275854970278685571652813875093281181647409999742672602351972414502972131442834718612490671881835259} 116 repeating digits r=1 One/335
1/618049=0.{00000161799468974142826863242234838985258450381765847044489999983820053102585717313675776516101474154961823415295551} 116 repeating digits r=1 One/5328
1/1889=0.{00052938062466913710958178930651138168343038644785600847008999470619375330862890418210693488618316569613552143991529 91} 118 repeating digits r=1 One/16
1/923441=0.{00000108290621707288283712765623358720264748911949978396020969395987399303258139935307182592065979309993816605500513839} 119 repeating digits r=1 One/7760
1/15973=0.{00006260564702936204845677080072622550554059976209854128842421586427095724034307894572090402554310398797971577036248669 63} 121 repeating digits r=1 One/132
1/38237=0.{00002615267934199858775531553207626121296126788189450009153437769699505714360436226691424536443758663075032037032193948 27} 121 repeating digits r=1 One/316
1/274187=0.{00000364714592595564341124852746483239540897270840703607392035362726898065918515465722299014905885399380714621772731748 77} 121 repeating digits r=1 One/2266
1/81131=0.{00001232574478312852054085368108367948133265952595185564087709999876742552168714794591463189163205186673404740481443591229} 122 repeating digits r=1 One/665
1/1811791=0.{00000055194004164939554286338766447123316099925432900373166662159156326529936399949000740151595851839422979802858055923 6689} 123 repeating digits r=1 One/14730
1/2049349=0.{00000048795983505005735967861013424263022062128022118243403148999999512040164949942640321389865757369779378719778817 56596851} 124 repeating digits r=1 One/16527
1/1797655751=0.{00000000055628003272802368711138176087864333264105581247073817527591799749428220753930099934912399142654315687164065930218249} 125 repeating digits r=1 One/14381246
1/751=0.{00133155792276964047936085219707057256990679094540612516644474034620505992010652463382157123834886817576564580559254327563249} 125 repeating digits r=1 One/6
1/176144543406001=0.{00000000000000567715570782723087519342814634111588207055957880835820411551302370404740192906828098214969312427829479707405999} 125 repeating digits r=1 One/1409156347248
1/420517758049563045598108590083058199751996770410992305742734517046281250 01=0.{0000000000000000000000000000000000000000000000000000000000000000000000000000000237802085847261185996874977219791415273881400312 4999} 125 repeating digits r=1 One/336414206439650436478486872066446559801597416328793844594187613637025000
1/5274739=0.{00000018958284002298502352438670425209664402352419712141207365899999981041715997701497647561329574790335597647580287858792634 1} 126 repeating digits r=1 One/41863
1/18797=0.{00005319997872000851199659520136191945523221790711283715486513805394477842208863116454753418098632760546895781241687503324998 67} 127 repeating digits r=1 One/148
1/90679=0.{00001102791164437190529229479813407734977227362454372015571411241853130272720254965317217878450357855732859868326734966199450 81} 127 repeating digits r=1 One/714
1/1265011073=0.{00000000079050691440074058545414803653659401604305166426001711369999999992094930855992594145458519634634059839569483357399828863} 128 repeating digits r=1 One/9882899

1/515217525265213267447869906815873=0.{0000000000000000000000000000000019409277653846114909659847799936999999999999999999999999999999998059072234615388509034015220063} 128 repeating digits r=1 One/40251369161344786519364836469991/131=0.{0076335877862595419847328244274809160305343511450381679389312977099236641221374045801526717557251908396946564885496183206106870229} 130 repeating digits r=1 One/1
1/80173=0.{0000124730270789417883826225786736183004253302233919149838474299327703840445037606176643009491973607074700959175782370623526623676 3} 131 repeating digits r=1 One/612
1/109517=0.{0000091310024927636805244847831843458093264059461088232877087575444908096459910333555521060657249559429129724152414693609211355314 7} 131 repeating digits r=1 One/836
1/141811693=0.{0000000070516046938386103323651879679625572201581430947305593481632011825710310080001654024396986784439559578489765297421560294044 3} 131 repeating digits r=1 One/1082532
1/446790173=0.{0000000022381870963845035150314284105796570418302373897556605391139612195543969585024870276186669844235808651055536980219124022676 3} 131 repeating digits r=1 One/3410612
1/1597=0.{0006261740763932373199749530369442705072010018785222291797119599248591108328115216030056355666875391358797745773324984345648090169067} 133 repeating digits r=1 One/12
1/1577071=0.{0000006340868610227440616180248067461769317931786203664895239339256127339859778031553430378213789994236150433303256479892154506677251 69} 135 repeating digits r=1 One/11682
1/16357951=0.{0000000611323508671715669034587522605979196294205796312753351565853204964362590400227999215794203075923139762431126001049886993792804 49} 135 repeating digits r=1 One/121170
1/310362841=0.{0000000032220352049168154121904045851932383877102091612829385074484480569631078998919203732897908354950262876347365308464875149148412 39} 135 repeating digits r=1 One/2298984
1/152533657=0.{0000000065559301446499771522556493875971255314491017546376666233079299999999344406985535002284774435061240287446855089824536233337669207} 136 repeating digits r=1 One/1121571
1/2467=0.{0004053506282934738548844750709363599513579246047831374138629914876368058370490474260235103364410214835832995541143088771787596270774219 7} 137 repeating digits r=1 One/18
1/2535528323=0.{0000000003943951210991856074801969388215743468940141671610110426678124707345262812116494744436739624619842986467006229533646585891440661 3} 137 repeating digits r=1 One/18507506
1/31051=0.{0000322050819619335931209944929309845093555763099417088016489001964509999677949180380664068790055070690154906444236900582911983510998035 49} 138 repeating digits r=1 One/225
1/421=0.{0023752969121140142517814726840855106888361045130641330166270783847980997624703087885985748218527315914489311163895486935866983372921615201 9} 140 repeating digits r=1 One/3
1/3471301=0.{0000002880764301338316671472741776066091646907024196403596230923218700999999711923569866168332852725822393390835309297580359640376907678129 9} 140 repeating digits r=1 One/24795
1/13489841=0.{0000000741298581651184769338645281289823949741142241780314534470791760999999925870141834881523066135471871017605025885775821968546552920823 9} 140 repeating digits r=1 One/96356

1/283=0.{003533568904593639575971731448763250883392226148409893992932862190812720848056537102473498233215547703180212014134275618374558303886925795053} 141 repeating digits r=1 One/2
1/290249=0.{000003445317641059917519095673025574592849587767744247180868840202722489999965546823589400824809043269744254071504122322557528191311597972775 1} 142 repeating digits r=1 One/2044
1/2823679=0.{000000354147904205825095557958252336756408926085436765298038481002975196543233136627782407277881090591388043754265268821278905994626159701580 81} 143 repeating digits r=1 One/19746
1/180523201=0.{000000005539454177970176808464636077442477878508258891332200562962541307917534655282342351108653341461632956530612372644555532781628440102831 99} 143 repeating digits r=1 One/1262400
1/8929=0.{000111994624258035614290514055325344383469593459513943330720125433979168999888005375741964385709485944674655616530406540486056669279874566020831} 144 repeating digits r=1 One/62
1/9605671=0.{000000104105168707110622464583681868762734014104792887451589795236584721671187780635001969149266094997423917600342547647113876792157466146820976 9} 145 repeating digits r=1 One/66246
1/293=0.{003412969283276450511945392491467576791808873720136518771331058020477815699658703071672354948805460750853242320819112627986348122866894197952218 43} 146 repeating digits r=1 One/2
1/63799=0.{000015674226868759698427875045063402247684132980140754557281462091882317904669352184203514161663975924387529585103214783930782614147557171742503801} 147 repeating digits r=1 One/434
1/4715467=0.{000000212068073003161722900404138126722125295331300166028094354175312858726399739410751893714874899983395069883852437096898355984677657589375559197} 147 repeating digits r=1 One/32078
1/149=0.{006711409395973154362416107382550335570469798657718120805369127516778523489932885906040268456375838926174496644295302013422818791946308724832214765 1} 148 repeating digits r=1 One/1
1/3109=0.{000321646831778706979736249597941460276616275329688002573174654229655837889996783531682212930202637504020585397233837246703119974268253457703441621 1} 148 repeating digits r=1 One/21
1/111149=0.{000008996932046172255260956013999226263844029186047557782796066541309413489999910030679538277447390439860007737361559708139524422172039334586905865 1} 148 repeating digits r=1 One/751
1/12517=0.{000079891347767036829911320603978589118798434129583766078133738116162019653271550691060158184868578732923224414795877606455220899576575856834704801 47} 149 repeating digits r=1 One/84
1/907=0.{001102535832414553472987872105843439911797133406835722160970231532524807056229327453142227122381477398015435501653803748621830209481808158765159867695 7} 151 repeating digits r=1 One/6
1/429360649=0.{000000002329044364752672059613921442530705695854302661071299060757661562040353632873328361304950421760704949931263961733018528207041162731240421615 8151} 151 repeating digits r=1 One/2843448
1/457=0.{002188183807439824945295404814004376367614879649890590809628008752735229759299781181619256017505470459518599562363238512035010940919037199124726477024 07} 152 repeating digits r=1 One/3
1/1403417=0.{000000712546591640260877558131332312491583043386249418383844573637058693175299999928745340835973912244186866768750841695661375058161615542636294130682 47} 152 repeating digits r=1 One/9233

1/307=0.{0032573289902280130293159609120521172638436482084690553745928338762214983
713355048859934853420195439739413680781758957654723127035830618892508143322475 57}
153 repeating digits r=1 One/2
1/18973=0.{0000527064776261002477204448426711642860907605544721446265746060190797 4
490064828967480103304696147156485532071891635482000737890686765403468086227797 39
63} 153 repeating digits r=1 One/124
1/11910133=0.{0000000839621186430075969764569379703820268002044981361669093031958 5
851812066246447457807566044812429886383300673468549847428236107858745154231275 16
71203} 153 repeating digits r=1 One/77844
1/463=0.{0021598272138228941684665226781857451403887688984881209503239740820734341
252699784017278617710583153347732181425485961123110151187904967602591792656587 47
3} 154 repeating digits r=1 One/3
1/24179=0.{0000413582033996443194507630588527234376938665784358327474254518383721 4
111418999958641796600355680549236941147276562306133421564167252574548161627858 88
581} 154 repeating digits r=1 One/157
1/590437=0.{0000016936607970028978536236719582275501027205273382257548222757042665
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8627} 154 repeating digits r=1 One/3834
1/7444361=0.{0000001343298639063849805241846815327735987010839479708197923233438 03
450692409999998656701360936150194758153184672264012989160520291802076766561965 49
30759} 154 repeating digits r=1 One/48340
1/311=0.{0032154340836012861736334405144694533762057877813504823151125401929260450
160771704180064308681672025723472668810289389067524115755627009646302250803858 52
09} 155 repeating digits r=1 One/2
1/3121=0.{0003204101249599487343800064082024991989746876001281640499839794937520 02
563280999679589875040051265619993591797500801025312399871835950016020506247997 43
6719} 156 repeating digits r=1 One/20
1/301670477=0.{0000000033148752570839074849210385277442976297610985645108387586764
083646143470645289562093940004609731830006023426680894597451775169898378885780 06
2594590587} 157 repeating digits r=1 One/1921468
1/1423=0.{0007027406886858749121574139142656359803232607167955024595924104005621 92
550948699929725931131412508784258608573436401967673928320449754040758959943780 74
490513} 158 repeating digits r=1 One/9
1/351391=0.{0000028458327048786110059734028475402045015381725769868892487286242390
954805330813822778614136389378214012311072281304871211840940718458924673654134 56
804528289} 159 repeating digits r=1 One/2210
1/1634881=0.{0000006116653138668808310818952572083228075927238740923651323857822 06
778352675209999993883346861331191689181047427916771924072761259076348676142177 93
22164732479} 160 repeating digits r=1 One/10218
1/18453761=0.{0000000541894955722034115430453445235364216541007548542543712363024 5
346734467840999999945810504427796588456954655476463578345899245145745628763697 54
653265532159} 160 repeating digits r=1 One/115336
1/6763=0.{0001478633742422002070087239390802898122135147124057370989205973680319 38
488836315244713884370841342599438119177879639213366849031494898713588644092858 19
902410173} 161 repeating digits r=1 One/42
1/472341157=0.{0000000021171138385469975041789551275541292710175581841156391120 920
254679394791760651083809747283995410969448931590773911747012975200041693593090 80
91500482986707} 161 repeating digits r=1 One/2933796
1/1459=0.{0006854009595613433858807402330363262508567511994516792323509252912954 07
813570938999314599040438656614119259766963673749143248800548320767649074708704 59
2186429061} 162 repeating digits r=1 One/9

1/2458921051=0.{0000000004066824347993269508188044708394340392346334018188044704327516044353064509999999995933175652006730491811955291605659607653665981811955295672483955646935 49} 162 repeating digits r=1 One/15178525
1/68389=0.{0000146222345698869701267747737209200309991372881603766687625202883504657181710508999985377765430113029873225226279079969000862711839623331237479711649534281828949 1} 164 repeating digits r=1 One/417
1/471241=0.{0000021220564424572564781078047113897135436008326949480202274420095025687493235945089667494976031372482445288079772345784853185525028594710562111531042502668485976 39} 165 repeating digits r=1 One/2856
1/167=0.{0059880239520958083832335329341317365269461077844311377245508982035928143712574850299401197604790419161676646706586826347305389221556886227544910179640718562874251497} 166 repeating digits r=1 One/1
1/997=0.{0010030090270812437311935807422266800401203610832497492477432296890672016048144433299899699097291875626880641925777331995987963891675025075225677031093279839518555667} 166 repeating digits r=1 One/6
1/3565183=0.{0000002804905105852911337230094500057921290435862619113801451426196074647500563084699999971950948941470886627699054999420787095641373808861985485738039253524994369153} 166 repeating digits r=1 One/21477
1/2097307081=0.{0000000004768018994734896429789911151308414430514193262288423084764285883799006732099999999952319810052651035702100888486915855694858067377115769152357141162009932679} 166 repeating digits r=1 One/12634380
1/18843947=0.{0000000530674385785525718152359481800707675520420429966184897463360515713613501460177106208163289782124732148737204578212834073456054615309627011793229942750316587071 7} 167 repeating digits r=1 One/112838
1/11831=0.{0000845237089003465472064914208435466148254585411207843800185952159580762403854281125855802552616008790465725636040909475107767728847941847688276561575521933902459639929} 169 repeating digits r=1 One/70
1/87211=0.{0000114664434532341103759846808315464792285376844664090539037506736535528775039845890999988533556546765889624015319168453520771462315533590946096249326346447122496015410 9} 170 repeating digits r=1 One/513
1/787223761=0.{0000000012702868606629875339852705487633267715861030774959039885992465616138840097840999999998729713139337012466014729451236673228413896922504096011400753438386115990215 9} 170 repeating digits r=1 One/4630728
1/338669=0.{0000029527355618612863887748804880281336644334143367122470612899320575547215718001942899999704726443813871361122511951197186633556658566328775293871006794244527842819980571} 172 repeating digits r=1 One/1969
1/347=0.{0028818443804034582132564841498559077809798270893371757925072046109510086455331412103746397694524495677233429394812680115273775216138328530259365994236311239193083573487031 7} 173 repeating digits r=1 One/2
1/10100113=0.{0000000990087932679565070212580789937696736660273008826732928631590557452179000373560176999999900991206732043492978741921006230326333972699117326707136840944254782099962643982 3} 176 repeating digits r=1 One/57387
1/3187=0.{0003137747097583934734860370254157514904298713523689990586758707248195795418889237527455287103859428930028239723878255412613743332287417634138688421713209915280828365233762158 77} 177 repeating digits r=1 One/18
1/179=0.{0055865921787709497206703910614525139664804469273743016759776536312849162011173184357541899441340782122905027932960893854748603351955307262569832402234636871508379888268156424581} 178 repeating digits r=1 One/1
1/359=0.{0027855153203342618384401114206128133704735376044568245125348189415041782729805013927576601671309192200557103064066852367688022284122562674094707520891364902506963788300835654596 1} 179 repeating digits r=1 One/2

1/36558961=0.{0000000273530749410520720214122058884550903949376460671297524018803488425177072182111521167136013520734355661803408472139019486905002579258201566505131259063954251872748790645335 9} 179 repeating digits r=1 One/204240
1/181=0.{0055248618784530386740331491712707182320441988950276243093922651933701657458563535911602209944751381215469613259668508287292817679558011049723756906077348066298342541436464088397 79} 180 repeating digits r=1 One/1
1/12671=0.{0000789203693473285454975929287349064793623234156735853523794491358219556467524268013574303527740509825585983742403914450319627495856680609265251361376371241417409833478020677136769} 181 repeating digits r=1 One/70
1/28865519=0.{0000000346434096681234104954080333701950760005389128807973277736665673671067546022643833287736832308471571219627126745928247470624034163390583761892519583659659817653027475445703921} 181 repeating digits r=1 One/159478
1/995130761=0.{0000000010048930645004953273673347939045369335136048517748513252923150267284321241075573584846705386891361506209132248902513827527033907054552401681812748224351191571697380179769159} 181 repeating digits r=1 One/5497960
1/21705503=0.{0000000460712658904979073739963547493002120245727546604195258686241917545057582862742227166999999953928734109502092626003645250699787975427245339580474131375808245494241713725777283 3} 182 repeating digits r=1 One/119261
1/2520277=0.{0000003967817823199592743178626793800840145745884281767440642437319389892460233537821437881629678007615829529849298311257056268021332575744650290424425569094190836959588172252494467 87} 183 repeating digits r=1 One/13772
1/2393=0.{0004178854993731717509402423735896364396155453405766819891349770162975344755536982866694525699958211450062682824905975762641036356038445465942331801086502298370246552444630171333054743} 184 repeating digits r=1 One/13
1/373=0.{0026809651474530831099195710455764075067024128686327077747989276139410187667560321715817694369973190348525469168900804289544235924932975871313672922252010723860589812332439678284182305 63} 186 repeating digits r=1 One/2
1/44641=0.{0000224009318787661566721175600904997647902152729553549427656190497524697027396339687731009609999775990681212338433278824399095002352097847270446450572343809502475302972603660312268990 39} 186 repeating digits r=1 One/240
1/3590254957=0.{0000000002785317510808745608536458041857109258215836508348562945804185683072646475563378770929999999997214682489191254391463541958142890741784163491651437054195814316927353524436621229 07} 186 repeating digits r=1 One/19302446
1/143899867=0.{0000000069492767495052653523300337772705821531440331352078317070300002431551934651892346780278817074931695385097194009220314289797085080002193469713213841955809451860021524550818382618797} 187 repeating digits r=1 One/769518
1/45121=0.{0000221626293743489727621284989251124753440748210367678021320449458123711797167615965958201280999977837370625651027237871501074887524655925178963232197867955054187628820283238403404179871 9} 188 repeating digits r=1 One/240
1/4473297929=0.{0000000002235487141415480712552378712801804978994950371882552068666383700641728484344821737447928431953989800977550762190693335328705310564616318896652680340621238331116755805065895936214983 1} 191 repeating digits r=1 One/23420408
1/193=0.{0051813471502590673575129533678756476683937823834196891191709844559585492227979274611398963730569948186528497409326424870466321243523316062176165803108808290155440414507772020725388601036269 43} 192 repeating digits r=1 One/1
1/769=0.{0013003901170351105331599479843953185955786736020806241872561768530559167750325097529258777633289986996098829648894668400520156046814044213263979193758127438231469440832249674902470741222366 71} 192 repeating digits r=1 One/4
1/773=0.{0012936610608020698576972833117723156532988357050452781371280724450194049159120310478654592496765847347994825355756791720569210866752910737386804657179818887451487710219922380336351875808538163} 193 repeating digits r=1 One/4

1/39373=0.{000025398115459832880400274299646966195108322962436187234907169887994310822136997434790338556879079572295735656414294059380793945089274375841312574606964163259086175805755212963198130698702156 3} 193 repeating digits r=1 One/204
1/561470969=0.{000000001781035984426827952346009896728961600149980327834189411135876554999587164763989783414785956635987710345893235309909674065445759493933870693143530988153369689181561228680373677521339487 1} 193 repeating digits r=1 One/2909176
1/1951=0.{000512557662737057919015889287544848795489492567913890312660174269605330599692465402357765248590466427473090722706304459251665812403895438236801640184520758585340850845720143516145566376217324449} 195 repeating digits r=1 One/10
1/52009=0.{000019227441404372320175354265607875559999230902343825107192985829375684977600030763906246995712280566824972600895998769443750120171508777327001095964160049222249995193139648906919956161433598031 11} 197 repeating digits r=1 One/264
1/797=0.{001254705144291091593475533249686323713927227101631116687578419071518193224592220828105395232120451693851944792973651191969887076537013801756587202007528230865746549560853199498117942283563362609786 7} 199 repeating digits r=1 One/4
1/29453=0.{000033952398736970766984687468169626184089905951855498590975452415713170135470070960513360268902997996808474518724747903439377992055138695548840525583132448307472922962007265813329711744134723118188 3} 199 repeating digits r=1 One/148
1/2253079=0.{000000443837078060733778087674688725961229055883082661548929265241032382797052389197183054832964134857233146285594069271428121250963681255739368215672863667896243318587586143228888112667154591561148 1} 199 repeating digits r=1 One/11322

Out of the blue I found this one, I did not want to just dump it even though it’s over 200.
1/1327067281=0.{000000000753541296901283485113668475713101391729663177491902914302956128717938001818613143850089391209999999992464587030987165148863315242868986082703368225080970856970438712820619981813868561499106087 9} 202 repeating digits r=1 One/6569640

These two are part of 4 that belong to a series they are the only 4 primes all the way up to 138 digits the rest are composite. All the numbers of this pattern starting with 91 will produce an increasing pattern by 6 digits each time but they are not prime numbers. There are other number patterns that produce short repeating digits

1/999999000001=0.{000000000001000000999999999998999999} 36 repeating digits r=1 One/27777750000
1/99999999000000001=0.{000000000000000010000000099999999999999999899999999} 48 repeating digits r=1 One/2083333312500000

The following 168 values were created by a different method. Starting with N “9’s” and factoring it. Let n=19 which is 9999999999999999999 which equals 3*3*1111111111111111111 which are all prime numbers. I finally found some missing entries like 19 repeating digits the second entry and others like 23 and 36 etc. Look at the one down at 127 repeating digits the prime number has 117 digits. For the repeating digits under 200 all the repeating are accounted for between the three groups. The last section using a similar method by adding one instead of subtracting one, found eight more numbers under 200. There seems to be no number missing, eventually it will be found.

1/5363222357=0.{00000000018645507} 17 repeating digits r=1 One/315483668
1/1111111111111111111=0.{0000000000000000009} 19 repeating digits r=1 One/58479532163742690
1/111111111111111111111111=0.{000000000000000000000009} 23 repeating digits r=1 One/483091787439613526570
1/182521213001=0.{000000000005478815221299 9} 25 repeating digits r=1 One/7300848520

1/440334654777631=0.{000000000000002270999997729} 27 repeating digits r=1 One/16308690917690
1/77843839397=0.{000000000012846231734537732 67} 29 repeating digits r=1 One/2684270324
1/57336415063790604359=0.{0000000000000000000174409229961} 31 repeating digits r=1 One/1849561776251309818
1/1344628210313298373=0.{0000000000000000007436999999992563} 33 repeating digits r=1 One/40746309403433284
1/21993833369=0.{000000000045467289999999995453271} 34 repeating digits r=1 One/646877452
1/102598800232111471=0.{00000000000000000974670266842963569} 35 repeating digits r=1 One/2931394292346042
1/999999000001=0.{000000000001000000999999999998999999} 36 repeating digits r=1 One/27777750000
1/2212394296770203368013=0.{0000000000000000000004519989955948923} 37 repeating digits r=1 One/59794440453248739676
1/909090909090909091=0.{00000000000000000109999999999999999989} 38 repeating digits r=1 One/23923444976076555
1/753201806271328462547977919407=0.{000000000000000000000000000000132766543} 38 repeating digits r=1 One/19821100165034959540736261037
1/900900900900990990990991=0.{0000000000000000000000011099999999999889} 39 repeating digits r=1 One/23100023100025410025410
1/5964848081=0.{000000000167648863209999999983235113679} 40 repeating digits r=1 One/149121202
1/2017637099003228037486579423 61=0.{0000000000000000000000000000000495629268759} 41 repeating digits r=1 One/49210660951298244816745839 60
1/1963506722254397=0.{000000000000000509292883322472994498570826 7} 43 repeating digits r=1 One/45662947029172
1/2140992015395526641=0.{0000000000000000004670732038275537915021039} 43 repeating digits r=1 One/49790511985942480
1/4185502830133110721=0.{00000000000000000023891991968099976108008031 9} 45 repeating digits r=1 One/93011174002958016
1/549797184491917=0.{000000000000001818852529999999999999818114747} 46 repeating digits r=1 One/11952112706346
1/316362908763458525001406154038726382279=0.{0000000000000000000000000000000000000000316092681} 47 repeating digits r=1 One/673112571837145797875332242635588047 4
1/9999999900000001=0.{00000000000000010000000099999999999999899999999} 48 repeating digits r=1 One/208333331250000
1/19767301445981909635680230146793 33=0.{0000000000000000000000000000000000505885946 4114003} 49 repeating digits r=1 One/40341431522412060480980061524068
1/78875943472201=0.{000000000000012678136780099999999999999873218632199} 50 repeating digits r=1 One/1577518869444
1/13168164561429877=0.{0000000000000000759407277555630805405927224443691 87} 51 repeating digits r=1 One/258199305126076
1/19003819767773322437 81=0.{00000000000000000000052620999999999999999999999947379} 52 repeating digits r=1 One/36545807245717927765
1/1325815267337711173=0.{0000000000000000007542528922660839830366639985087576 3} 53 repeating digits r=1 One/25015382402598324
1/4719885879949142566020007 1=0.{00000000000000000000000002118695293562426430110228169} 53 repeating digits r=1 One/8905445056507816162301 90
1/1325815267337711173=0.{0000000000000000007542528922660839830366639985087576 3} 53 repeating digits r=1 One/25015382402598324

1/14175966169=0.{0000000007054192907054192899999999999929458070929458071} 54 repeating digits r=1 One/262517892
1/1300635692678058358830121=0.{0000000000000000000000007688548035622196147743009183719} 55 repeating digits r=1 One/2364792168505560652418 4
1/1275220010201505037 61=0.{00000000000000000000784178409999999999999999999921582159} 56 repeating digits r=1 One/227717858964554471 0
1/3931123022305129377976519=0.{000000000000000000000000254380235450789999974561976454921} 57 repeating digits r=1 One/6896707056675665575397 4
1/154083204930662557781201849=0.{0000000000000000000000000064899999999999999999999999999351} 58 repeating digits r=1 One/26566069815631475479517 56
1/4340876285657460212144534289928559826755746751=0.{00000000000000000000000000000000000000000000023036823309249} 59 repeating digits r=1 One/7357417433317729173126329304963660723314825 0
1/2559647034361=0.{00000000000039067886570917141909300808609357038440801720759} 59 repeating digits r=1 One/43383848040
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1/7061709990156159479=0.{0000000000000000001416087606817575426529376714513019778381881} 61 repeating digits r=1 One/115765737543543598
1/9090909090909090909090909091=0.{00000000000000000000000000000109999999999999999999999999999989} 62 repeating digits r=1 One/1466275659824046920821114369 5
1/1921436048294281=0.{000000000000000520444071447359042266911676928552640957732567879} 63 repeating digits r=1 One/30498984893560
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1/162503518711=0.{00000000000615371290377055175764956485625843120024180286748055609} 65 repeating digits r=1 One/2500054134
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1/79863595778924342083=0.{0000000000000000000125213495616721990874968988368190177543089391253} 67 repeating digits r=1 One/1191993966849617046
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1/203864078068831=0.{000000000000004905229059836467013979756350016501635329860201945976929} 69 repeating digits r=1 One/2954551856070
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1/66554101249=0.{000000000015025370055838976115027005583897461248999999999984974629944161023884972994416102538751} 96 repeating digits r=1 One/693271888
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This is a small sample of the 260 using a different method to find prime numbers. Raising 10 to a power and adding one like 11 and 101 which just happen to be prime, while 1001 is not. There are some numbers over 200 repeating digits but I used it anyway just because the main number is large. The rest of the numbers from this group are found at “http://engert.us/erwin/miscellaneous/More%20short%20repeating%20digits.pdf”

1/9090909090909090909090909090909090909090909090909091=0.{0000000000000000000000000
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89} 106 repeating digits r=1 One/85763293310463121783876500857632933104631217838765
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