

A list of Anomalous Cancellations

Shalosh B. EKHAD

Lots and Lots of Anomalous Cancellations

By Shalosh B. Ekhad

In this book, you will find listed all the anomalous cancellation where the denominator has up to 3, digits and one digit in the numerator and one in the denominator, that must be the same, gets cancelled, and you still get something correct!

Chapter 1 : The denominator has 2 digits

Section 1

All the Anomalous Cancellations with the denominator with, 2,

digits, and where the , 1, -th digit of the numerator

is cancelled out with the, 0, -th digit of the denominator

denominator= 26

$$\frac{\cancel{6}5}{2\cancel{6}} = \frac{5}{2}$$

Section 2

All the Anomalous Cancellations with the denominator with, 2,

digits, and where the , 1, -th digit of the numerator

is cancelled out with the, 1, -th digit of the denominator

denominator= 64

$$\frac{1\cancel{6}0}{\cancel{6}4} = \frac{10}{4}$$

Chapter 2 : The denominator has 3 digits

Section 1

All the Anomalous Cancellations with the denominator with, 3,

digits, and where the , 1, -th digit of the numerator

is cancelled out with the, 0, -th digit of the denominator

denominator= 106

$$\frac{2\cancel{0}5}{10\cancel{6}} = \frac{25}{10}$$

denominator= 146

$$\frac{3\cancel{6}5}{14\cancel{6}} = \frac{35}{14}$$

denominator= 186

$$\frac{4\cancel{6}5}{18\cancel{6}} = \frac{45}{18}$$

denominator= 217

$$\frac{7\cancel{7}5}{21\cancel{7}} = \frac{75}{21}$$

denominator= 222

$$\frac{12\cancel{2}1}{22\cancel{2}} = \frac{121}{22}$$

denominator= 226

$$\frac{5\cancel{6}5}{22\cancel{6}} = \frac{55}{22}$$

denominator= 244

$$\frac{13\cancel{4}2}{24\cancel{4}} = \frac{132}{24}$$

denominator= 248

$$\frac{10\cancel{8}5}{24\cancel{8}} = \frac{105}{24}$$

denominator= 266

$$\frac{6\cancel{6}5}{26\cancel{6}} = \frac{65}{26}$$

$$\frac{14\cancel{6}3}{26\cancel{6}} = \frac{143}{26}$$

$$\frac{22\cancel{6}1}{26\cancel{6}} = \frac{221}{26}$$

denominator= 288

$$\frac{15\cancel{8}4}{28\cancel{8}} = \frac{154}{28}$$

denominator= 305

$$\frac{854}{30\cancel{5}} = \frac{84}{30}$$

$$\frac{19\cancel{5}2}{30\cancel{5}} = \frac{192}{30}$$

denominator= 306

$$\frac{7\cancel{6}5}{30\cancel{6}} = \frac{75}{30}$$

denominator= 346

$$\frac{8\cancel{6}5}{34\cancel{6}} = \frac{85}{34}$$

denominator= 357

$$\frac{12\cancel{7}5}{35\cancel{7}} = \frac{125}{35}$$

denominator= 386

$$\frac{9\cancel{6}5}{38\cancel{6}} = \frac{95}{38}$$

denominator= 408

$$\frac{17\cancel{8}5}{40\cancel{8}} = \frac{175}{40}$$

denominator= 422

$$\frac{23\cancel{2}1}{42\cancel{2}} = \frac{231}{42}$$

denominator= 426

$$\frac{10\cancel{6}5}{42\cancel{6}} = \frac{105}{42}$$

denominator= 427

$$\frac{9\cancel{7}6}{42\cancel{7}} = \frac{96}{42}$$

$$\frac{20\cancel{7}4}{42\cancel{7}} = \frac{204}{42}$$

$$\frac{31\cancel{7}2}{42\cancel{7}} = \frac{312}{42}$$

denominator= 444

$$\frac{14\cancel{4}3}{44\cancel{4}} = \frac{143}{44}$$

$$\frac{24\cancel{4}2}{44\cancel{4}} = \frac{242}{44}$$

$$\frac{34\cancel{4}1}{44\cancel{4}} = \frac{341}{44}$$

denominator= 466

$$\frac{11\cancel{6}5}{46\cancel{6}} = \frac{115}{46}$$

$$\frac{25\cancel{6}3}{46\cancel{6}} = \frac{253}{46}$$

$$\frac{39\cancel{6}1}{46\cancel{6}} = \frac{391}{46}$$

denominator= 488

$$\frac{15\cancel{8}6}{48\cancel{8}} = \frac{156}{48}$$

$$\frac{26\cancel{8}4}{48\cancel{8}} = \frac{264}{48}$$

$$\frac{37\cancel{8}2}{48\cancel{8}} = \frac{372}{48}$$

denominator= 497

$$\frac{17\cancel{7}5}{49\cancel{7}} = \frac{175}{49}$$

denominator= 506

$$\frac{12\cancel{0}5}{50\cancel{6}} = \frac{125}{50}$$

denominator= 546

$$\frac{13\cancel{4}5}{54\cancel{6}} = \frac{135}{54}$$

denominator= 555

$$\frac{15\cancel{5}4}{55\cancel{5}} = \frac{154}{55}$$

$$\frac{25\cancel{5}3}{55\cancel{5}} = \frac{253}{55}$$

$$\frac{35\cancel{5}2}{55\cancel{5}} = \frac{352}{55}$$

$$\frac{45\cancel{5}1}{55\cancel{5}} = \frac{451}{55}$$

denominator= 568

$$\frac{24\cancel{8}5}{56\cancel{8}} = \frac{245}{56}$$

denominator= 586

$$\frac{14\cancel{6}5}{58\cancel{6}} = \frac{145}{58}$$

denominator= 622

$$\frac{34\cancel{2}1}{62\cancel{2}} = \frac{341}{62}$$

denominator= 626

$$\frac{15\cancel{6}5}{62\cancel{6}} = \frac{155}{62}$$

denominator= 637

$$\frac{22\cancel{7}5}{63\cancel{7}} = \frac{225}{63}$$

denominator= 644

$$\frac{35\cancel{4}2}{64\cancel{4}} = \frac{352}{64}$$

denominator= 666

$$\frac{16\cancel{6}5}{66\cancel{6}} = \frac{165}{66}$$

$$\frac{36\cancel{6}3}{66\cancel{6}} = \frac{363}{66}$$

$$\frac{56\cancel{6}1}{66\cancel{6}} = \frac{561}{66}$$

denominator= 688

$$\frac{37\cancel{8}4}{68\cancel{8}} = \frac{374}{68}$$

denominator= 706

$$\frac{17\cancel{0}5}{70\cancel{0}} = \frac{175}{70}$$

denominator= 728

$$\frac{31\cancel{8}5}{72\cancel{8}} = \frac{315}{72}$$

denominator= 746

$$\frac{18\cancel{4}5}{74\cancel{4}} = \frac{185}{74}$$

denominator= 777

$$\frac{17\cancel{7}6}{77\cancel{7}} = \frac{176}{77}$$

$$\frac{27\cancel{7}5}{77\cancel{7}} = \frac{275}{77}$$

$$\frac{37\cancel{7}4}{77\cancel{7}} = \frac{374}{77}$$

$$\frac{47\cancel{7}3}{77\cancel{7}} = \frac{473}{77}$$

$$\frac{57\cancel{7}2}{7\cancel{7}7} = \frac{572}{77}$$

$$\frac{67\cancel{7}1}{7\cancel{7}7} = \frac{671}{77}$$

denominator= 786

$$\frac{19\cancel{6}5}{78\cancel{6}} = \frac{195}{78}$$

denominator= 805

$$\frac{22\cancel{5}4}{80\cancel{5}} = \frac{224}{80}$$

$$\frac{51\cancel{5}2}{80\cancel{5}} = \frac{512}{80}$$

denominator= 822

$$\frac{45\cancel{2}1}{82\cancel{2}} = \frac{451}{82}$$

denominator= 826

$$\frac{20\cancel{6}5}{82\cancel{6}} = \frac{205}{82}$$

denominator= 844

$$\frac{27\cancel{4}3}{84\cancel{4}} = \frac{273}{84}$$

$$\frac{46\cancel{4}2}{84\cancel{4}} = \frac{462}{84}$$

$$\frac{65\cancel{4}1}{84\cancel{4}} = \frac{651}{84}$$

denominator= 866

$$\frac{21\cancel{6}5}{86\cancel{6}} = \frac{215}{86}$$

$$\frac{47\cancel{6}3}{86\cancel{6}} = \frac{473}{86}$$

$$\frac{73\cancel{6}1}{86\cancel{6}} = \frac{731}{86}$$

denominator= 888

$$\frac{18\cancel{8}7}{88\cancel{8}} = \frac{187}{88}$$

$$\frac{28\cancel{8}6}{88\cancel{8}} = \frac{286}{88}$$

$$\frac{38\cancel{8}5}{88\cancel{8}} = \frac{385}{88}$$

$$\frac{48\cancel{8}4}{88\cancel{8}} = \frac{484}{88}$$

$$\frac{58\cancel{8}3}{88\cancel{8}} = \frac{583}{88}$$

$$\frac{68\cancel{8}2}{88\cancel{8}} = \frac{682}{88}$$

$$\frac{78\cancel{8}1}{88\cancel{8}} = \frac{781}{88}$$

denominator= 906

$$\frac{22\cancel{0}5}{90\cancel{0}} = \frac{225}{90}$$

denominator= 917

$$\frac{32\cancel{7}5}{91\cancel{7}} = \frac{325}{91}$$

denominator= 946

$$\frac{23\cancel{6}5}{94\cancel{6}} = \frac{235}{94}$$

denominator= 986

$$\frac{24\cancel{6}5}{98\cancel{6}} = \frac{245}{98}$$

Section 2

All the Anomalous Cancellations with the denominator with, 3,

digits, and where the , 2, -th digit of the numerator

is cancelled out with the, 0, -th digit of the denominator

denominator= 106

$$\frac{6\cancel{0}25}{10\cancel{0}} = \frac{625}{10}$$

denominator= 124

$$\frac{5\cancel{4}25}{12\cancel{4}} = \frac{525}{12}$$

denominator= 186

$$\frac{11\cancel{0}25}{18\cancel{0}} = \frac{1125}{18}$$

denominator= 217

$$\frac{7\cancel{7}5}{21\cancel{7}} = \frac{75}{21}$$

$$\frac{7750}{217} = \frac{750}{21}$$

$$\frac{14725}{217} = \frac{1425}{21}$$

denominator= 248

$$\frac{3875}{248} = \frac{375}{24}$$

$$\frac{10850}{248} = \frac{1050}{24}$$

$$\frac{17825}{248} = \frac{1725}{24}$$

denominator= 266

$$\frac{665}{266} = \frac{65}{26}$$

$$\frac{4655}{266} = \frac{455}{26}$$

$$\frac{8645}{266} = \frac{845}{26}$$

$$\frac{12635}{266} = \frac{1235}{26}$$

$$\frac{16625}{266} = \frac{1625}{26}$$

$$\frac{20615}{266} = \frac{2015}{26}$$

$$\frac{24605}{266} = \frac{2405}{26}$$

denominator= 284

$$\frac{12425}{284} = \frac{1225}{28}$$

denominator= 346

$$\frac{21625}{346} = \frac{2125}{34}$$

denominator= 357

$$\frac{12750}{357} = \frac{1250}{35}$$

denominator= 408

$$\frac{17850}{408} = \frac{1750}{40}$$

denominator= 426

$$\frac{26625}{426} = \frac{2625}{42}$$

denominator= 427

$$\frac{9\cancel{7}60}{42\cancel{7}} = \frac{960}{42}$$

$$\frac{20\cancel{7}40}{42\cancel{7}} = \frac{2040}{42}$$

$$\frac{31\cancel{7}20}{42\cancel{7}} = \frac{3120}{42}$$

denominator= 488

$$\frac{15\cancel{8}60}{48\cancel{8}} = \frac{1560}{48}$$

$$\frac{37\cancel{8}20}{48\cancel{8}} = \frac{3720}{48}$$

denominator= 497

$$\frac{1\cancel{7}75}{49\cancel{7}} = \frac{175}{49}$$

$$\frac{17\cancel{7}50}{49\cancel{7}} = \frac{1750}{49}$$

$$\frac{33\cancel{7}25}{49\cancel{7}} = \frac{3325}{49}$$

denominator= 506

$$\frac{31\cancel{0}25}{50\cancel{6}} = \frac{3125}{50}$$

denominator= 568

$$\frac{8\cancel{8}75}{56\cancel{8}} = \frac{875}{56}$$

$$\frac{24\cancel{8}50}{56\cancel{8}} = \frac{2450}{56}$$

$$\frac{40\cancel{8}25}{56\cancel{8}} = \frac{4025}{56}$$

denominator= 586

$$\frac{36\cancel{0}25}{58\cancel{6}} = \frac{3625}{58}$$

denominator= 604

$$\frac{26\cancel{4}25}{60\cancel{4}} = \frac{2625}{60}$$

denominator= 622

$$\frac{20\cancel{2}15}{62\cancel{2}} = \frac{2015}{62}$$

$$\frac{48\cancel{2}05}{62\cancel{2}} = \frac{4805}{62}$$

denominator= 637

$$\frac{22\cancel{7}50}{63\cancel{7}} = \frac{2250}{63}$$

denominator= 728

$$\frac{31\cancel{8}50}{72\cancel{8}} = \frac{3150}{72}$$

denominator= 746

$$\frac{46\cancel{6}25}{74\cancel{6}} = \frac{4625}{74}$$

denominator= 764

$$\frac{33\cancel{4}25}{76\cancel{4}} = \frac{3325}{76}$$

denominator= 826

$$\frac{51\cancel{6}25}{82\cancel{6}} = \frac{5125}{82}$$

denominator= 844

$$\frac{27\cancel{4}30}{84\cancel{4}} = \frac{2730}{84}$$

$$\frac{65\cancel{4}10}{84\cancel{4}} = \frac{6510}{84}$$

denominator= 906

$$\frac{56\cancel{6}25}{90\cancel{6}} = \frac{5625}{90}$$

denominator= 917

$$\frac{32\cancel{7}50}{91\cancel{7}} = \frac{3250}{91}$$

denominator= 924

$$\frac{40\cancel{4}25}{92\cancel{4}} = \frac{4025}{92}$$

denominator= 986

$$\frac{61\cancel{6}25}{98\cancel{6}} = \frac{6125}{98}$$

Section 3

All the Anomalous Cancellations with the denominator with, 3, digits, and where the , 1, -th digit of the numerator

is cancelled out with the, 1, -th digit of the denominator

denominator= 160

$$\frac{\cancel{6}4}{1\cancel{6}0} = \frac{4}{10}$$

denominator= 190

$$\frac{\cancel{9}5}{1\cancel{9}0} = \frac{5}{10}$$

denominator= 192

$$\frac{\cancel{9}6}{1\cancel{9}2} = \frac{6}{12}$$

denominator= 194

$$\frac{\cancel{9}7}{1\cancel{9}4} = \frac{7}{14}$$

$$\frac{\cancel{2}9\cancel{1}}{1\cancel{9}4} = \frac{21}{14}$$

denominator= 196

$$\frac{\cancel{9}8}{1\cancel{9}6} = \frac{8}{16}$$

$$\frac{\cancel{2}9\cancel{4}}{1\cancel{9}6} = \frac{24}{16}$$

$$\frac{\cancel{4}9\cancel{0}}{1\cancel{9}6} = \frac{40}{16}$$

denominator= 222

$$\frac{\cancel{1}2\cancel{2}1}{\cancel{2}\cancel{2}2} = \frac{121}{22}$$

denominator= 244

$$\frac{\cancel{1}3\cancel{4}2}{\cancel{2}\cancel{4}4} = \frac{132}{24}$$

denominator= 260

$$\frac{\cancel{6}5}{2\cancel{6}0} = \frac{5}{20}$$

denominator= 266

$$\frac{\cancel{6}6\cancel{5}}{2\cancel{6}6} = \frac{65}{26}$$

$$\frac{\cancel{1}4\cancel{6}3}{\cancel{2}\cancel{6}6} = \frac{143}{26}$$

$$\frac{\cancel{2}2\cancel{6}1}{\cancel{2}\cancel{6}6} = \frac{221}{26}$$

denominator= 288

$$\frac{1584}{288} = \frac{154}{28}$$

denominator= 291

$$\frac{97}{291} = \frac{7}{21}$$

$$\frac{194}{291} = \frac{14}{21}$$

denominator= 294

$$\frac{98}{294} = \frac{8}{24}$$

$$\frac{196}{294} = \frac{16}{24}$$

$$\frac{392}{294} = \frac{32}{24}$$

$$\frac{490}{294} = \frac{40}{24}$$

denominator= 332

$$\frac{830}{332} = \frac{80}{32}$$

denominator= 390

$$\frac{195}{390} = \frac{15}{30}$$

denominator= 392

$$\frac{98}{392} = \frac{8}{32}$$

$$\frac{196}{392} = \frac{16}{32}$$

$$\frac{294}{392} = \frac{24}{32}$$

$$\frac{490}{392} = \frac{40}{32}$$

denominator= 394

$$\frac{197}{394} = \frac{17}{34}$$

$$\frac{591}{394} = \frac{51}{34}$$

denominator= 398

$$\frac{199}{398} = \frac{19}{38}$$

$$\frac{597}{398} = \frac{57}{38}$$

$$\frac{995}{398} = \frac{95}{38}$$

$$\frac{1393}{398} = \frac{133}{38}$$

$$\frac{1791}{398} = \frac{171}{38}$$

denominator= 422

$$\frac{2321}{422} = \frac{231}{42}$$

denominator= 444

$$\frac{1443}{444} = \frac{143}{44}$$

$$\frac{2442}{444} = \frac{242}{44}$$

$$\frac{3441}{444} = \frac{341}{44}$$

denominator= 464

$$\frac{1160}{464} = \frac{110}{44}$$

denominator= 466

$$\frac{1165}{466} = \frac{115}{46}$$

$$\frac{2563}{466} = \frac{253}{46}$$

$$\frac{3961}{466} = \frac{391}{46}$$

denominator= 488

$$\frac{1586}{488} = \frac{156}{48}$$

$$\frac{2684}{488} = \frac{264}{48}$$

$$\frac{3782}{488} = \frac{372}{48}$$

denominator= 490

$$\frac{98}{490} = \frac{8}{40}$$

$$\frac{196}{490} = \frac{16}{40}$$

$$\frac{294}{490} = \frac{24}{40}$$

$$\frac{392}{490} = \frac{32}{40}$$

denominator= 532

$$\frac{133}{532} = \frac{13}{52}$$

$$\frac{931}{532} = \frac{91}{52}$$

$$\frac{1330}{532} = \frac{130}{52}$$

denominator= 555

$$\frac{1554}{555} = \frac{154}{55}$$

$$\frac{2553}{555} = \frac{253}{55}$$

$$\frac{3552}{555} = \frac{352}{55}$$

$$\frac{4551}{555} = \frac{451}{55}$$

denominator= 576

$$\frac{1872}{576} = \frac{182}{56}$$

denominator= 590

$$\frac{295}{590} = \frac{25}{50}$$

denominator= 591

$$\frac{197}{591} = \frac{17}{51}$$

$$\frac{394}{591} = \frac{34}{51}$$

denominator= 592

$$\frac{296}{592} = \frac{26}{52}$$

denominator= 596

$$\frac{298}{596} = \frac{28}{56}$$

$$\frac{894}{596} = \frac{84}{56}$$

$$\frac{1490}{596} = \frac{140}{56}$$

denominator= 597

$$\frac{199}{597} = \frac{19}{57}$$

$$\frac{398}{597} = \frac{38}{57}$$

$$\frac{796}{597} = \frac{76}{57}$$

$$\frac{995}{597} = \frac{95}{57}$$

$$\frac{1393}{597} = \frac{133}{57}$$

$$\frac{1592}{597} = \frac{152}{57}$$

$$\frac{1990}{597} = \frac{190}{57}$$

denominator= 598

$$\frac{299}{598} = \frac{29}{58}$$

$$\frac{897}{598} = \frac{87}{58}$$

$$\frac{1495}{598} = \frac{145}{58}$$

$$\frac{2093}{598} = \frac{203}{58}$$

$$\frac{2691}{598} = \frac{261}{58}$$

denominator= 622

$$\frac{3421}{622} = \frac{341}{62}$$

denominator= 644

$$\frac{3542}{644} = \frac{352}{64}$$

denominator= 664

$$\frac{166}{664} = \frac{16}{64}$$

$$\frac{1162}{664} = \frac{112}{64}$$

$$\frac{1660}{664} = \frac{160}{64}$$

denominator= 665

$$\frac{266}{665} = \frac{26}{65}$$

$$\frac{1064}{665} = \frac{104}{65}$$

$$\frac{14\cancel{6}3}{6\cancel{6}5} = \frac{143}{65}$$

$$\frac{18\cancel{6}2}{6\cancel{6}5} = \frac{182}{65}$$

$$\frac{22\cancel{6}1}{6\cancel{6}5} = \frac{221}{65}$$

denominator= 666

$$\frac{16\cancel{6}5}{6\cancel{6}6} = \frac{165}{66}$$

$$\frac{36\cancel{6}3}{6\cancel{6}6} = \frac{363}{66}$$

$$\frac{56\cancel{6}1}{6\cancel{6}6} = \frac{561}{66}$$

denominator= 688

$$\frac{37\cancel{8}4}{6\cancel{8}8} = \frac{374}{68}$$

denominator= 732

$$\frac{18\cancel{3}0}{7\cancel{3}2} = \frac{180}{72}$$

denominator= 775

$$\frac{21\cancel{7}0}{7\cancel{7}5} = \frac{210}{75}$$

denominator= 777

$$\frac{17\cancel{7}6}{7\cancel{7}7} = \frac{176}{77}$$

$$\frac{27\cancel{7}5}{7\cancel{7}7} = \frac{275}{77}$$

$$\frac{37\cancel{7}4}{7\cancel{7}7} = \frac{374}{77}$$

$$\frac{47\cancel{7}3}{7\cancel{7}7} = \frac{473}{77}$$

$$\frac{57\cancel{7}2}{7\cancel{7}7} = \frac{572}{77}$$

$$\frac{67\cancel{7}1}{7\cancel{7}7} = \frac{671}{77}$$

denominator= 790

$$\frac{39\cancel{5}}{790} = \frac{35}{70}$$

denominator= 794

$$\frac{39\cancel{7}}{794} = \frac{37}{74}$$

$$\frac{1191}{794} = \frac{111}{74}$$

denominator= 796

$$\frac{199}{796} = \frac{19}{76}$$

$$\frac{398}{796} = \frac{38}{76}$$

$$\frac{597}{796} = \frac{57}{76}$$

$$\frac{995}{796} = \frac{95}{76}$$

$$\frac{1194}{796} = \frac{114}{76}$$

$$\frac{1393}{796} = \frac{133}{76}$$

$$\frac{1791}{796} = \frac{171}{76}$$

$$\frac{1990}{796} = \frac{190}{76}$$

denominator= 798

$$\frac{399}{798} = \frac{39}{78}$$

$$\frac{1197}{798} = \frac{117}{78}$$

$$\frac{1995}{798} = \frac{195}{78}$$

$$\frac{2793}{798} = \frac{273}{78}$$

$$\frac{3591}{798} = \frac{351}{78}$$

denominator= 822

$$\frac{4521}{822} = \frac{451}{82}$$

denominator= 830

$$\frac{332}{830} = \frac{32}{80}$$

denominator= 844

$$\frac{2743}{844} = \frac{273}{84}$$

$$\frac{4642}{844} = \frac{462}{84}$$

$$\frac{6541}{844} = \frac{651}{84}$$

denominator= 854

$$\frac{1952}{854} = \frac{192}{84}$$

$$\frac{3050}{854} = \frac{300}{84}$$

denominator= 864

$$\frac{2160}{864} = \frac{210}{84}$$

denominator= 866

$$\frac{2165}{866} = \frac{215}{86}$$

$$\frac{4763}{866} = \frac{473}{86}$$

$$\frac{7361}{866} = \frac{731}{86}$$

denominator= 888

$$\frac{1887}{888} = \frac{187}{88}$$

$$\frac{2886}{888} = \frac{286}{88}$$

$$\frac{3885}{888} = \frac{385}{88}$$

$$\frac{4884}{888} = \frac{484}{88}$$

$$\frac{5883}{888} = \frac{583}{88}$$

$$\frac{6882}{888} = \frac{682}{88}$$

$$\frac{7881}{888} = \frac{781}{88}$$

denominator= 894

$$\frac{298}{894} = \frac{28}{84}$$

$$\frac{596}{894} = \frac{56}{84}$$

$$\frac{1192}{894} = \frac{112}{84}$$

$$\frac{1490}{894} = \frac{140}{84}$$

denominator= 897

$$\frac{299}{897} = \frac{29}{87}$$

$$\frac{598}{897} = \frac{58}{87}$$

$$\frac{1196}{897} = \frac{116}{87}$$

$$\frac{1495}{897} = \frac{145}{87}$$

$$\frac{2093}{897} = \frac{203}{87}$$

$$\frac{2392}{897} = \frac{232}{87}$$

$$\frac{2990}{897} = \frac{290}{87}$$

denominator= 931

$$\frac{133}{931} = \frac{13}{91}$$

$$\frac{532}{931} = \frac{52}{91}$$

$$\frac{1330}{931} = \frac{130}{91}$$

denominator= 932

$$\frac{233}{932} = \frac{23}{92}$$

$$\frac{1631}{932} = \frac{161}{92}$$

$$\frac{2330}{932} = \frac{230}{92}$$

denominator= 976

$$\frac{2074}{976} = \frac{204}{96}$$

$$\frac{3172}{976} = \frac{312}{96}$$

$$\frac{4270}{976} = \frac{420}{96}$$

denominator= 992

$$\frac{496}{992} = \frac{46}{92}$$

denominator= 994

$$\frac{497}{994} = \frac{47}{94}$$

$$\frac{1491}{994} = \frac{141}{94}$$

denominator= 995

$$\frac{199}{995} = \frac{19}{95}$$

$$\frac{398}{995} = \frac{38}{95}$$

$$\frac{597}{995} = \frac{57}{95}$$

$$\frac{796}{995} = \frac{76}{95}$$

$$\frac{1194}{995} = \frac{114}{95}$$

$$\frac{1393}{995} = \frac{133}{95}$$

$$\frac{1592}{995} = \frac{152}{95}$$

$$\frac{1791}{995} = \frac{171}{95}$$

denominator= 996

$$\frac{498}{996} = \frac{48}{96}$$

$$\frac{1494}{996} = \frac{144}{96}$$

$$\frac{2490}{996} = \frac{240}{96}$$

denominator= 998

$$\frac{499}{998} = \frac{49}{98}$$

$$\frac{1497}{998} = \frac{147}{98}$$

$$\frac{2495}{998} = \frac{245}{98}$$

$$\frac{3493}{998} = \frac{343}{98}$$

$$\frac{4491}{998} = \frac{441}{98}$$

Section 4

All the Anomalous Cancellations with the denominator with, 3,
digits, and where the , 2, -th digit of the numerator

is cancelled out with the, 1, -th digit of the denominator

denominator= 121

$$\frac{220}{121} = \frac{20}{11}$$

$$\frac{2200}{121} = \frac{200}{11}$$

denominator= 130

$$\frac{325}{130} = \frac{25}{10}$$

denominator= 132

$$\frac{330}{132} = \frac{30}{12}$$

$$\frac{2310}{132} = \frac{210}{12}$$

denominator= 143

$$\frac{440}{143} = \frac{40}{13}$$

$$\frac{2420}{143} = \frac{220}{13}$$

$$\frac{3410}{143} = \frac{310}{13}$$

$$\frac{4400}{143} = \frac{400}{13}$$

denominator= 154

$$\frac{550}{154} = \frac{50}{14}$$

$$\frac{2530}{154} = \frac{230}{14}$$

$$\frac{3520}{154} = \frac{320}{14}$$

$$\frac{4510}{154} = \frac{410}{14}$$

$$\frac{5500}{154} = \frac{500}{14}$$

denominator= 176

$$\frac{770}{176} = \frac{70}{16}$$

$$\frac{2750}{176} = \frac{250}{16}$$

$$\frac{3740}{176} = \frac{340}{16}$$

$$\frac{4730}{176} = \frac{430}{16}$$

$$\frac{5720}{176} = \frac{520}{16}$$

$$\frac{6710}{176} = \frac{610}{16}$$

$$\frac{7700}{176} = \frac{700}{16}$$

denominator= 187

$$\frac{880}{187} = \frac{80}{17}$$

$$\frac{2860}{187} = \frac{260}{17}$$

$$\frac{3850}{187} = \frac{350}{17}$$

$$\frac{4840}{187} = \frac{440}{17}$$

$$\frac{5830}{187} = \frac{530}{17}$$

$$\frac{6820}{187} = \frac{620}{17}$$

$$\frac{7810}{187} = \frac{710}{17}$$

$$\frac{8800}{187} = \frac{800}{17}$$

denominator= 220

$$\frac{1210}{220} = \frac{110}{20}$$

denominator= 231

$$\frac{330}{231} = \frac{30}{21}$$

$$\frac{1320}{231} = \frac{120}{21}$$

$$\frac{3300}{231} = \frac{300}{21}$$

denominator= 242

$$\frac{440}{242} = \frac{40}{22}$$

$$\frac{1430}{242} = \frac{130}{22}$$

$$\frac{3410}{242} = \frac{310}{22}$$

$$\frac{4400}{242} = \frac{400}{22}$$

denominator= 253

$$\frac{550}{253} = \frac{50}{23}$$

$$\frac{1540}{253} = \frac{140}{23}$$

$$\frac{3520}{253} = \frac{320}{23}$$

$$\frac{4510}{253} = \frac{410}{23}$$

$$\frac{5500}{253} = \frac{500}{23}$$

denominator= 260

$$\frac{650}{260} = \frac{50}{20}$$

$$\frac{1625}{260} = \frac{125}{20}$$

denominator= 262

$$\frac{655}{262} = \frac{55}{22}$$

denominator= 264

$$\frac{660}{264} = \frac{60}{24}$$

$$\frac{1650}{264} = \frac{150}{24}$$

$$\frac{3630}{264} = \frac{330}{24}$$

$$\frac{4620}{264} = \frac{420}{24}$$

$$\frac{5610}{264} = \frac{510}{24}$$

denominator= 266

$$\frac{665}{266} = \frac{65}{26}$$

$$\frac{4655}{266} = \frac{455}{26}$$

$$\frac{8645}{266} = \frac{845}{26}$$

$$\frac{12635}{266} = \frac{1235}{26}$$

$$\frac{16625}{266} = \frac{1625}{26}$$

$$\frac{20615}{266} = \frac{2015}{26}$$

$$\frac{24605}{266} = \frac{2405}{26}$$

denominator= 270

$$\frac{756}{270} = \frac{56}{20}$$

$$\frac{1728}{270} = \frac{128}{20}$$

denominator= 275

$$\frac{770}{275} = \frac{70}{25}$$

$$\frac{1760}{275} = \frac{160}{25}$$

$$\frac{3740}{275} = \frac{340}{25}$$

$$\frac{4730}{275} = \frac{430}{25}$$

$$\frac{5720}{275} = \frac{520}{25}$$

$$\frac{6710}{275} = \frac{610}{25}$$

denominator= 286

$$\frac{880}{286} = \frac{80}{26}$$

$$\frac{1870}{286} = \frac{170}{26}$$

$$\frac{3850}{286} = \frac{350}{26}$$

$$\frac{4840}{286} = \frac{440}{26}$$

$$\frac{5830}{286} = \frac{530}{26}$$

$$\frac{6820}{286} = \frac{620}{26}$$

$$\frac{7810}{286} = \frac{710}{26}$$

$$\frac{8800}{286} = \frac{800}{26}$$

denominator= 291

$$\frac{970}{291} = \frac{70}{21}$$

$$\frac{1940}{291} = \frac{140}{21}$$

denominator= 294

$$\frac{980}{294} = \frac{80}{24}$$

$$\frac{1960}{294} = \frac{160}{24}$$

$$\frac{3920}{294} = \frac{320}{24}$$

$$\frac{4900}{294} = \frac{400}{24}$$

denominator= 297

$$\frac{990}{297} = \frac{90}{27}$$

$$\frac{1980}{297} = \frac{180}{27}$$

$$\frac{3960}{297} = \frac{360}{27}$$

$$\frac{4950}{297} = \frac{450}{27}$$

$$\frac{6930}{297} = \frac{630}{27}$$

$$\frac{7920}{297} = \frac{720}{27}$$

$$\frac{9900}{297} = \frac{900}{27}$$

denominator= 341

$$\frac{440}{341} = \frac{40}{31}$$

$$\frac{1430}{341} = \frac{130}{31}$$

$$\frac{2420}{341} = \frac{220}{31}$$

$$\frac{4400}{341} = \frac{400}{31}$$

denominator= 352

$$\frac{550}{352} = \frac{50}{32}$$

$$\frac{1540}{352} = \frac{140}{32}$$

$$\frac{2530}{352} = \frac{230}{32}$$

$$\frac{4510}{352} = \frac{410}{32}$$

$$\frac{5500}{352} = \frac{500}{32}$$

denominator= 354

$$\frac{11505}{354} = \frac{1105}{34}$$

denominator= 363

$$\frac{\cancel{6}60}{\cancel{3}6\cancel{3}} = \frac{60}{33}$$

$$\frac{\cancel{1}6\cancel{5}0}{\cancel{3}6\cancel{3}} = \frac{150}{33}$$

$$\frac{\cancel{2}6\cancel{4}0}{\cancel{3}6\cancel{3}} = \frac{240}{33}$$

$$\frac{\cancel{4}6\cancel{2}0}{\cancel{3}6\cancel{3}} = \frac{420}{33}$$

$$\frac{\cancel{5}6\cancel{1}0}{\cancel{3}6\cancel{3}} = \frac{510}{33}$$

$$\frac{\cancel{6}6\cancel{0}0}{\cancel{3}6\cancel{3}} = \frac{600}{33}$$

denominator= 374

$$\frac{\cancel{7}70}{\cancel{3}7\cancel{4}} = \frac{70}{34}$$

$$\frac{\cancel{1}7\cancel{6}0}{\cancel{3}7\cancel{4}} = \frac{160}{34}$$

$$\frac{\cancel{2}7\cancel{5}0}{\cancel{3}7\cancel{4}} = \frac{250}{34}$$

$$\frac{\cancel{4}7\cancel{3}0}{\cancel{3}7\cancel{4}} = \frac{430}{34}$$

$$\frac{\cancel{5}7\cancel{2}0}{\cancel{3}7\cancel{4}} = \frac{520}{34}$$

$$\frac{\cancel{6}7\cancel{1}0}{\cancel{3}7\cancel{4}} = \frac{610}{34}$$

$$\frac{\cancel{7}7\cancel{0}0}{\cancel{3}7\cancel{4}} = \frac{700}{34}$$

denominator= 385

$$\frac{\cancel{8}80}{\cancel{3}8\cancel{5}} = \frac{80}{35}$$

$$\frac{\cancel{1}8\cancel{7}0}{\cancel{3}8\cancel{5}} = \frac{170}{35}$$

$$\frac{\cancel{2}8\cancel{6}0}{\cancel{3}8\cancel{5}} = \frac{260}{35}$$

$$\frac{\cancel{4}8\cancel{4}0}{\cancel{3}8\cancel{5}} = \frac{440}{35}$$

$$\frac{\cancel{5}8\cancel{3}0}{\cancel{3}8\cancel{5}} = \frac{530}{35}$$

$$\frac{\cancel{6}8\cancel{2}0}{\cancel{3}8\cancel{5}} = \frac{620}{35}$$

$$\frac{\cancel{7}8\cancel{1}0}{\cancel{3}8\cancel{5}} = \frac{710}{35}$$

$$\frac{\cancel{8}8\cancel{0}0}{\cancel{3}8\cancel{5}} = \frac{800}{35}$$

denominator= 390

$$\frac{975}{390} = \frac{75}{30}$$

$$\frac{2925}{390} = \frac{225}{30}$$

denominator= 392

$$\frac{980}{392} = \frac{80}{32}$$

$$\frac{2940}{392} = \frac{240}{32}$$

$$\frac{4900}{392} = \frac{400}{32}$$

denominator= 394

$$\frac{985}{394} = \frac{85}{34}$$

$$\frac{2955}{394} = \frac{255}{34}$$

$$\frac{4925}{394} = \frac{425}{34}$$

denominator= 396

$$\frac{990}{396} = \frac{90}{36}$$

$$\frac{2970}{396} = \frac{270}{36}$$

$$\frac{4950}{396} = \frac{450}{36}$$

$$\frac{6930}{396} = \frac{630}{36}$$

$$\frac{8910}{396} = \frac{810}{36}$$

denominator= 398

$$\frac{995}{398} = \frac{95}{38}$$

$$\frac{2985}{398} = \frac{285}{38}$$

$$\frac{4975}{398} = \frac{475}{38}$$

$$\frac{6965}{398} = \frac{665}{38}$$

$$\frac{8955}{398} = \frac{855}{38}$$

$$\frac{10945}{398} = \frac{1045}{38}$$

$$\frac{12935}{398} = \frac{1235}{38}$$

$$\frac{14925}{398} = \frac{1425}{38}$$

$$\frac{16915}{398} = \frac{1615}{38}$$

$$\frac{18905}{398} = \frac{1805}{38}$$

denominator= 440

$$\frac{1430}{440} = \frac{130}{40}$$

$$\frac{2420}{440} = \frac{220}{40}$$

$$\frac{3410}{440} = \frac{310}{40}$$

denominator= 442

$$\frac{2431}{442} = \frac{231}{42}$$

$$\frac{6409}{442} = \frac{609}{42}$$

denominator= 451

$$\frac{550}{451} = \frac{50}{41}$$

$$\frac{1540}{451} = \frac{140}{41}$$

$$\frac{2530}{451} = \frac{230}{41}$$

$$\frac{3520}{451} = \frac{320}{41}$$

$$\frac{5500}{451} = \frac{500}{41}$$

denominator= 462

$$\frac{660}{462} = \frac{60}{42}$$

$$\frac{1650}{462} = \frac{150}{42}$$

$$\frac{2640}{462} = \frac{240}{42}$$

$$\frac{3630}{462} = \frac{330}{42}$$

$$\frac{5610}{462} = \frac{510}{42}$$

$$\frac{6600}{462} = \frac{600}{42}$$

denominator= 473

$$\frac{770}{473} = \frac{70}{43}$$

$$\frac{1760}{473} = \frac{160}{43}$$

$$\frac{2750}{473} = \frac{250}{43}$$

$$\frac{3740}{473} = \frac{340}{43}$$

$$\frac{5720}{473} = \frac{520}{43}$$

$$\frac{6710}{473} = \frac{610}{43}$$

$$\frac{7700}{473} = \frac{700}{43}$$

denominator= 484

$$\frac{880}{484} = \frac{80}{44}$$

$$\frac{1870}{484} = \frac{170}{44}$$

$$\frac{2860}{484} = \frac{260}{44}$$

$$\frac{3850}{484} = \frac{350}{44}$$

$$\frac{5830}{484} = \frac{530}{44}$$

$$\frac{6820}{484} = \frac{620}{44}$$

$$\frac{7810}{484} = \frac{710}{44}$$

$$\frac{8800}{484} = \frac{800}{44}$$

denominator= 488

$$\frac{15860}{488} = \frac{1560}{48}$$

$$\frac{37820}{488} = \frac{3720}{48}$$

denominator= 530

$$\frac{1325}{530} = \frac{125}{50}$$

denominator= 532

$$\frac{1330}{532} = \frac{130}{52}$$

$$\frac{3325}{532} = \frac{325}{52}$$

$$\frac{7315}{532} = \frac{715}{52}$$

$$\frac{9310}{532} = \frac{910}{52}$$

$$\frac{11305}{532} = \frac{1105}{52}$$

denominator= 550

$$\frac{1540}{550} = \frac{140}{50}$$

$$\frac{2530}{550} = \frac{230}{50}$$

$$\frac{3520}{550} = \frac{320}{50}$$

$$\frac{4510}{550} = \frac{410}{50}$$

denominator= 561

$$\frac{660}{561} = \frac{60}{51}$$

$$\frac{1650}{561} = \frac{150}{51}$$

$$\frac{2640}{561} = \frac{240}{51}$$

$$\frac{3630}{561} = \frac{330}{51}$$

$$\frac{4620}{561} = \frac{420}{51}$$

$$\frac{6600}{561} = \frac{600}{51}$$

denominator= 572

$$\frac{770}{572} = \frac{70}{52}$$

$$\frac{1760}{572} = \frac{160}{52}$$

$$\frac{2750}{572} = \frac{250}{52}$$

$$\frac{3740}{572} = \frac{340}{52}$$

$$\frac{4730}{572} = \frac{430}{52}$$

$$\frac{6710}{572} = \frac{610}{52}$$

$$\frac{7700}{572} = \frac{700}{52}$$

denominator= 576

$$\frac{18720}{576} = \frac{1820}{56}$$

denominator= 583

$$\frac{880}{583} = \frac{80}{53}$$

$$\frac{1870}{583} = \frac{170}{53}$$

$$\frac{2860}{583} = \frac{260}{53}$$

$$\frac{3850}{583} = \frac{350}{53}$$

$$\frac{4840}{583} = \frac{440}{53}$$

$$\frac{6820}{583} = \frac{620}{53}$$

$$\frac{7810}{583} = \frac{710}{53}$$

$$\frac{8800}{583} = \frac{800}{53}$$

denominator= 591

$$\frac{985}{591} = \frac{85}{51}$$

$$\frac{1970}{591} = \frac{170}{51}$$

$$\frac{3940}{591} = \frac{340}{51}$$

$$\frac{4925}{591} = \frac{425}{51}$$

denominator= 594

$$\frac{990}{594} = \frac{90}{54}$$

$$\frac{1980}{594} = \frac{180}{54}$$

$$\frac{3960}{594} = \frac{360}{54}$$

$$\frac{4950}{594} = \frac{450}{54}$$

$$\frac{6930}{594} = \frac{630}{54}$$

$$\frac{7920}{594} = \frac{720}{54}$$

$$\frac{9900}{594} = \frac{900}{54}$$

denominator= 597

$$\frac{995}{597} = \frac{95}{57}$$

$$\frac{1990}{597} = \frac{190}{57}$$

$$\frac{3980}{597} = \frac{380}{57}$$

$$\frac{4975}{597} = \frac{475}{57}$$

$$\frac{6965}{597} = \frac{665}{57}$$

$$\frac{7960}{597} = \frac{760}{57}$$

$$\frac{9950}{597} = \frac{950}{57}$$

$$\frac{10945}{597} = \frac{1045}{57}$$

$$\frac{12935}{597} = \frac{1235}{57}$$

$$\frac{13930}{597} = \frac{1330}{57}$$

$$\frac{15920}{597} = \frac{1520}{57}$$

$$\frac{16915}{597} = \frac{1615}{57}$$

$$\frac{18905}{597} = \frac{1805}{57}$$

$$\frac{19900}{597} = \frac{1900}{57}$$

denominator= 622

$$\frac{20215}{622} = \frac{2015}{62}$$

$$\frac{48205}{622} = \frac{4805}{62}$$

denominator= 660

$$\frac{1650}{660} = \frac{150}{60}$$

$$\frac{3630}{660} = \frac{330}{60}$$

$$\frac{5610}{660} = \frac{510}{60}$$

denominator= 662

$$\frac{1655}{662} = \frac{155}{62}$$

$$\frac{3641}{662} = \frac{341}{62}$$

$$\frac{5\cancel{0}27}{6\cancel{6}2} = \frac{527}{62}$$

$$\frac{7\cancel{0}13}{6\cancel{6}2} = \frac{713}{62}$$

denominator= 664

$$\frac{1\cancel{0}60}{6\cancel{6}4} = \frac{160}{64}$$

$$\frac{3\cancel{0}52}{6\cancel{6}4} = \frac{352}{64}$$

$$\frac{5\cancel{0}44}{6\cancel{6}4} = \frac{544}{64}$$

$$\frac{7\cancel{0}36}{6\cancel{6}4} = \frac{736}{64}$$

$$\frac{9\cancel{0}28}{6\cancel{6}4} = \frac{928}{64}$$

$$\frac{11\cancel{0}20}{6\cancel{6}4} = \frac{1120}{64}$$

$$\frac{13\cancel{0}12}{6\cancel{6}4} = \frac{1312}{64}$$

$$\frac{15\cancel{0}04}{6\cancel{6}4} = \frac{1504}{64}$$

denominator= 671

$$\frac{7\cancel{7}0}{6\cancel{7}1} = \frac{70}{61}$$

$$\frac{17\cancel{6}0}{6\cancel{7}1} = \frac{160}{61}$$

$$\frac{27\cancel{5}0}{6\cancel{7}1} = \frac{250}{61}$$

$$\frac{37\cancel{4}0}{6\cancel{7}1} = \frac{340}{61}$$

$$\frac{47\cancel{3}0}{6\cancel{7}1} = \frac{430}{61}$$

$$\frac{57\cancel{2}0}{6\cancel{7}1} = \frac{520}{61}$$

$$\frac{77\cancel{0}0}{6\cancel{7}1} = \frac{700}{61}$$

denominator= 682

$$\frac{8\cancel{8}0}{6\cancel{8}2} = \frac{80}{62}$$

$$\frac{18\cancel{7}0}{6\cancel{8}2} = \frac{170}{62}$$

$$\frac{28\cancel{6}0}{6\cancel{8}2} = \frac{260}{62}$$

$$\frac{38\cancel{5}0}{6\cancel{8}2} = \frac{350}{62}$$

$$\frac{4840}{682} = \frac{440}{62}$$

$$\frac{5830}{682} = \frac{530}{62}$$

$$\frac{7810}{682} = \frac{710}{62}$$

$$\frac{8800}{682} = \frac{800}{62}$$

denominator= 693

$$\frac{990}{693} = \frac{90}{63}$$

$$\frac{1980}{693} = \frac{180}{63}$$

$$\frac{2970}{693} = \frac{270}{63}$$

$$\frac{3960}{693} = \frac{360}{63}$$

$$\frac{4950}{693} = \frac{450}{63}$$

$$\frac{5940}{693} = \frac{540}{63}$$

$$\frac{7920}{693} = \frac{720}{63}$$

$$\frac{8910}{693} = \frac{810}{63}$$

$$\frac{9900}{693} = \frac{900}{63}$$

denominator= 754

$$\frac{24505}{754} = \frac{2405}{74}$$

denominator= 770

$$\frac{1760}{770} = \frac{160}{70}$$

$$\frac{2750}{770} = \frac{250}{70}$$

$$\frac{3740}{770} = \frac{340}{70}$$

$$\frac{4730}{770} = \frac{430}{70}$$

$$\frac{5720}{770} = \frac{520}{70}$$

$$\frac{6710}{770} = \frac{610}{70}$$

denominator= 781

$$\frac{880}{781} = \frac{80}{71}$$

$$\frac{1870}{781} = \frac{170}{71}$$

$$\frac{2860}{781} = \frac{260}{71}$$

$$\frac{3850}{781} = \frac{350}{71}$$

$$\frac{4840}{781} = \frac{440}{71}$$

$$\frac{5830}{781} = \frac{530}{71}$$

$$\frac{6820}{781} = \frac{620}{71}$$

$$\frac{8800}{781} = \frac{800}{71}$$

denominator= 790

$$\frac{1975}{790} = \frac{175}{70}$$

$$\frac{5925}{790} = \frac{525}{70}$$

denominator= 792

$$\frac{990}{792} = \frac{90}{72}$$

$$\frac{1980}{792} = \frac{180}{72}$$

$$\frac{2970}{792} = \frac{270}{72}$$

$$\frac{4950}{792} = \frac{450}{72}$$

$$\frac{5940}{792} = \frac{540}{72}$$

$$\frac{6930}{792} = \frac{630}{72}$$

$$\frac{8910}{792} = \frac{810}{72}$$

$$\frac{9900}{792} = \frac{900}{72}$$

denominator= 794

$$\frac{1985}{794} = \frac{185}{74}$$

$$\frac{5955}{794} = \frac{555}{74}$$

$$\frac{9925}{794} = \frac{925}{74}$$

denominator= 796

$$\frac{995}{796} = \frac{95}{76}$$

$$\frac{1990}{796} = \frac{190}{76}$$

$$\frac{2985}{796} = \frac{285}{76}$$

$$\frac{4975}{796} = \frac{475}{76}$$

$$\frac{5970}{796} = \frac{570}{76}$$

$$\frac{6965}{796} = \frac{665}{76}$$

$$\frac{8955}{796} = \frac{855}{76}$$

$$\frac{9950}{796} = \frac{950}{76}$$

$$\frac{10945}{796} = \frac{1045}{76}$$

$$\frac{12935}{796} = \frac{1235}{76}$$

$$\frac{13930}{796} = \frac{1330}{76}$$

$$\frac{14925}{796} = \frac{1425}{76}$$

$$\frac{16915}{796} = \frac{1615}{76}$$

$$\frac{17910}{796} = \frac{1710}{76}$$

$$\frac{18905}{796} = \frac{1805}{76}$$

denominator= 798

$$\frac{1995}{798} = \frac{195}{78}$$

$$\frac{5985}{798} = \frac{585}{78}$$

$$\frac{9975}{798} = \frac{975}{78}$$

$$\frac{13965}{798} = \frac{1365}{78}$$

$$\frac{17955}{798} = \frac{1755}{78}$$

$$\frac{21945}{798} = \frac{2145}{78}$$

$$\frac{25935}{798} = \frac{2535}{78}$$

$$\frac{29925}{798} = \frac{2925}{78}$$

$$\frac{33915}{798} = \frac{3315}{78}$$

$$\frac{37905}{798} = \frac{3705}{78}$$

denominator= 830

$$\frac{332}{830} = \frac{32}{80}$$

$$\frac{1328}{830} = \frac{128}{80}$$

$$\frac{2324}{830} = \frac{224}{80}$$

$$\frac{4316}{830} = \frac{416}{80}$$

$$\frac{5312}{830} = \frac{512}{80}$$

$$\frac{6308}{830} = \frac{608}{80}$$

$$\frac{7304}{830} = \frac{704}{80}$$

denominator= 844

$$\frac{27430}{844} = \frac{2730}{84}$$

$$\frac{65410}{844} = \frac{6510}{84}$$

denominator= 854

$$\frac{19520}{854} = \frac{1920}{84}$$

$$\frac{30500}{854} = \frac{3000}{84}$$

denominator= 880

$$\frac{1870}{880} = \frac{170}{80}$$

$$\frac{2860}{880} = \frac{260}{80}$$

$$\frac{3850}{880} = \frac{350}{80}$$

$$\frac{4840}{880} = \frac{440}{80}$$

$$\frac{5830}{880} = \frac{530}{80}$$

$$\frac{6820}{880} = \frac{620}{80}$$

$$\frac{7810}{880} = \frac{710}{80}$$

denominator= 882

$$\frac{4851}{882} = \frac{451}{82}$$

denominator= 884

$$\frac{2873}{884} = \frac{273}{84}$$

$$\frac{4862}{884} = \frac{462}{84}$$

$$\frac{6851}{884} = \frac{651}{84}$$

$$\frac{10829}{884} = \frac{1029}{84}$$

$$\frac{12818}{884} = \frac{1218}{84}$$

$$\frac{14807}{884} = \frac{1407}{84}$$

denominator= 886

$$\frac{4873}{886} = \frac{473}{86}$$

$$\frac{12847}{886} = \frac{1247}{86}$$

$$\frac{20821}{886} = \frac{2021}{86}$$

denominator= 891

$$\frac{990}{891} = \frac{90}{81}$$

$$\frac{1980}{891} = \frac{180}{81}$$

$$\frac{2970}{891} = \frac{270}{81}$$

$$\frac{3960}{891} = \frac{360}{81}$$

$$\frac{4950}{891} = \frac{450}{81}$$

$$\frac{5940}{891} = \frac{540}{81}$$

$$\frac{6930}{891} = \frac{630}{81}$$

$$\frac{7920}{891} = \frac{720}{81}$$

$$\frac{9900}{891} = \frac{900}{81}$$

denominator= 894

$$\frac{2980}{894} = \frac{280}{84}$$

$$\frac{5960}{894} = \frac{560}{84}$$

$$\frac{11920}{894} = \frac{1120}{84}$$

$$\frac{14900}{894} = \frac{1400}{84}$$

denominator= 897

$$\frac{2990}{897} = \frac{290}{87}$$

$$\frac{5980}{897} = \frac{580}{87}$$

$$\frac{11960}{897} = \frac{1160}{87}$$

$$\frac{14950}{897} = \frac{1450}{87}$$

$$\frac{20930}{897} = \frac{2030}{87}$$

$$\frac{23920}{897} = \frac{2320}{87}$$

$$\frac{29900}{897} = \frac{2900}{87}$$

denominator= 930

$$\frac{2325}{930} = \frac{225}{90}$$

denominator= 931

$$\frac{1330}{931} = \frac{130}{91}$$

$$\frac{3325}{931} = \frac{325}{91}$$

$$\frac{5320}{931} = \frac{520}{91}$$

$$\frac{7315}{931} = \frac{715}{91}$$

$$\frac{11305}{931} = \frac{1105}{91}$$

$$\frac{13300}{931} = \frac{1300}{91}$$

denominator= 932

$$\frac{2330}{932} = \frac{230}{92}$$

$$\frac{16\cancel{3}10}{9\cancel{3}2} = \frac{1610}{92}$$

denominator= 976

$$\frac{20740}{97\cancel{6}} = \frac{2040}{96}$$

$$\frac{31720}{97\cancel{6}} = \frac{3120}{96}$$

$$\frac{42700}{97\cancel{6}} = \frac{4200}{96}$$

Section 5

All the Anomalous Cancellations with the denominator with, 3,

digits, and where the , 1, -th digit of the numerator

is cancelled out with the, 2, -th digit of the denominator

denominator= 120

$$\frac{\cancel{1}2}{\cancel{1}20} = \frac{2}{20}$$

denominator= 130

$$\frac{\cancel{1}3}{\cancel{1}30} = \frac{3}{30}$$

denominator= 140

$$\frac{\cancel{1}4}{\cancel{1}40} = \frac{4}{40}$$

denominator= 150

$$\frac{\cancel{1}5}{\cancel{1}50} = \frac{5}{50}$$

denominator= 160

$$\frac{\cancel{1}6}{\cancel{1}60} = \frac{6}{60}$$

denominator= 170

$$\frac{\cancel{1}7}{\cancel{1}70} = \frac{7}{70}$$

denominator= 180

$$\frac{\cancel{1}8}{\cancel{1}80} = \frac{8}{80}$$

denominator= 190

$$\frac{19}{190} = \frac{9}{90}$$

denominator= 210

$$\frac{21}{210} = \frac{1}{10}$$

denominator= 222

$$\frac{1221}{222} = \frac{121}{22}$$

denominator= 240

$$\frac{24}{240} = \frac{4}{40}$$

denominator= 260

$$\frac{26}{260} = \frac{6}{60}$$

denominator= 280

$$\frac{28}{280} = \frac{8}{80}$$

denominator= 310

$$\frac{31}{310} = \frac{1}{10}$$

denominator= 320

$$\frac{32}{320} = \frac{2}{20}$$

denominator= 325

$$\frac{130}{325} = \frac{10}{25}$$

denominator= 332

$$\frac{830}{332} = \frac{80}{32}$$

denominator= 360

$$\frac{36}{360} = \frac{6}{60}$$

denominator= 370

$$\frac{37}{370} = \frac{7}{70}$$

denominator= 380

$$\frac{38}{380} = \frac{8}{80}$$

denominator= 390

$$\frac{39}{390} = \frac{9}{90}$$

denominator= 410

$$\frac{41}{410} = \frac{1}{10}$$

denominator= 420

$$\frac{42}{420} = \frac{2}{20}$$

denominator= 430

$$\frac{43}{430} = \frac{3}{30}$$

denominator= 444

$$\frac{1443}{444} = \frac{143}{44}$$

$$\frac{2442}{444} = \frac{242}{44}$$

$$\frac{3441}{444} = \frac{341}{44}$$

denominator= 510

$$\frac{51}{510} = \frac{1}{10}$$

denominator= 520

$$\frac{52}{520} = \frac{2}{20}$$

denominator= 530

$$\frac{53}{530} = \frac{3}{30}$$

denominator= 540

$$\frac{54}{540} = \frac{4}{40}$$

denominator= 555

$$\frac{1554}{555} = \frac{154}{55}$$

$$\frac{2553}{555} = \frac{253}{55}$$

$$\frac{3552}{555} = \frac{352}{55}$$

$$\frac{4551}{555} = \frac{451}{55}$$

denominator= 610

$$\frac{61}{610} = \frac{1}{10}$$

denominator= 620

$$\frac{62}{620} = \frac{2}{20}$$

denominator= 630

$$\frac{63}{630} = \frac{3}{30}$$

denominator= 640

$$\frac{64}{640} = \frac{4}{40}$$

$$\frac{160}{640} = \frac{10}{40}$$

denominator= 644

$$\frac{161}{644} = \frac{11}{44}$$

denominator= 648

$$\frac{162}{648} = \frac{12}{48}$$

denominator= 650

$$\frac{65}{650} = \frac{5}{50}$$

$$\frac{260}{650} = \frac{20}{50}$$

denominator= 652

$$\frac{163}{652} = \frac{13}{52}$$

denominator= 655

$$\frac{262}{655} = \frac{22}{55}$$

denominator= 656

$$\frac{164}{656} = \frac{14}{56}$$

denominator= 664

$$\frac{106}{664} = \frac{16}{64}$$

$$\frac{1162}{664} = \frac{112}{64}$$

$$\frac{1660}{664} = \frac{160}{64}$$

denominator= 665

$$\frac{266}{665} = \frac{26}{65}$$

$$\frac{1064}{665} = \frac{104}{65}$$

$$\frac{1463}{665} = \frac{143}{65}$$

$$\frac{1862}{665} = \frac{182}{65}$$

$$\frac{2261}{665} = \frac{221}{65}$$

denominator= 666

$$\frac{1665}{666} = \frac{165}{66}$$

$$\frac{3663}{666} = \frac{363}{66}$$

$$\frac{5661}{666} = \frac{561}{66}$$

denominator= 710

$$\frac{71}{710} = \frac{1}{10}$$

denominator= 720

$$\frac{72}{720} = \frac{2}{20}$$

denominator= 730

$$\frac{73}{730} = \frac{3}{30}$$

denominator= 740

$$\frac{74}{740} = \frac{4}{40}$$

denominator= 750

$$\frac{75}{750} = \frac{5}{50}$$

denominator= 756

$$\frac{270}{756} = \frac{20}{56}$$

denominator= 760

$$\frac{76}{760} = \frac{6}{60}$$

denominator= 775

$$\frac{2170}{775} = \frac{210}{75}$$

denominator= 777

$$\frac{1776}{777} = \frac{176}{77}$$

$$\frac{2775}{777} = \frac{275}{77}$$

$$\frac{3774}{777} = \frac{374}{77}$$

$$\frac{4773}{777} = \frac{473}{77}$$

$$\frac{5772}{777} = \frac{572}{77}$$

$$\frac{6771}{777} = \frac{671}{77}$$

denominator= 810

$$\frac{81}{810} = \frac{1}{10}$$

denominator= 820

$$\frac{82}{820} = \frac{2}{20}$$

denominator= 830

$$\frac{83}{830} = \frac{3}{30}$$

denominator= 840

$$\frac{84}{840} = \frac{4}{40}$$

denominator= 850

$$\frac{85}{850} = \frac{5}{50}$$

denominator= 860

$$\frac{\cancel{8}6}{\cancel{8}60} = \frac{6}{60}$$

denominator= 870

$$\frac{\cancel{8}7}{\cancel{8}70} = \frac{7}{70}$$

denominator= 888

$$\frac{\cancel{1}8\cancel{8}7}{\cancel{8}88} = \frac{187}{88}$$

$$\frac{\cancel{2}8\cancel{8}6}{\cancel{8}88} = \frac{286}{88}$$

$$\frac{\cancel{3}8\cancel{8}5}{\cancel{8}88} = \frac{385}{88}$$

$$\frac{\cancel{4}8\cancel{8}4}{\cancel{8}88} = \frac{484}{88}$$

$$\frac{\cancel{5}8\cancel{8}3}{\cancel{8}88} = \frac{583}{88}$$

$$\frac{\cancel{6}8\cancel{8}2}{\cancel{8}88} = \frac{682}{88}$$

$$\frac{\cancel{7}8\cancel{8}1}{\cancel{8}88} = \frac{781}{88}$$

denominator= 910

$$\frac{\cancel{9}1}{\cancel{9}10} = \frac{1}{10}$$

denominator= 920

$$\frac{\cancel{9}2}{\cancel{9}20} = \frac{2}{20}$$

denominator= 930

$$\frac{\cancel{9}3}{\cancel{9}30} = \frac{3}{30}$$

denominator= 940

$$\frac{\cancel{9}4}{\cancel{9}40} = \frac{4}{40}$$

denominator= 950

$$\frac{\cancel{9}5}{\cancel{9}50} = \frac{5}{50}$$

$$\frac{190}{\cancel{9}50} = \frac{10}{50}$$

denominator= 955

$$\frac{191}{\cancel{9}55} = \frac{11}{55}$$

denominator= 960

$$\frac{96}{960} = \frac{6}{60}$$

$$\frac{192}{960} = \frac{12}{60}$$

denominator= 965

$$\frac{193}{965} = \frac{13}{65}$$

denominator= 970

$$\frac{97}{970} = \frac{7}{70}$$

$$\frac{194}{970} = \frac{14}{70}$$

$$\frac{291}{970} = \frac{21}{70}$$

denominator= 975

$$\frac{195}{975} = \frac{15}{75}$$

$$\frac{390}{975} = \frac{30}{75}$$

denominator= 980

$$\frac{98}{980} = \frac{8}{80}$$

$$\frac{196}{980} = \frac{16}{80}$$

$$\frac{294}{980} = \frac{24}{80}$$

$$\frac{392}{980} = \frac{32}{80}$$

$$\frac{490}{980} = \frac{40}{80}$$

denominator= 982

$$\frac{491}{982} = \frac{41}{82}$$

denominator= 984

$$\frac{492}{984} = \frac{42}{84}$$

denominator= 985

$$\frac{197}{985} = \frac{17}{85}$$

$$\frac{394}{985} = \frac{34}{85}$$

$$\frac{591}{985} = \frac{51}{85}$$

denominator= 986

$$\frac{493}{986} = \frac{43}{86}$$

denominator= 988

$$\frac{494}{988} = \frac{44}{88}$$

denominator= 992

$$\frac{496}{992} = \frac{46}{92}$$

denominator= 994

$$\frac{497}{994} = \frac{47}{94}$$

$$\frac{1491}{994} = \frac{141}{94}$$

denominator= 995

$$\frac{199}{995} = \frac{19}{95}$$

$$\frac{398}{995} = \frac{38}{95}$$

$$\frac{597}{995} = \frac{57}{95}$$

$$\frac{796}{995} = \frac{76}{95}$$

$$\frac{1194}{995} = \frac{114}{95}$$

$$\frac{1393}{995} = \frac{133}{95}$$

$$\frac{1592}{995} = \frac{152}{95}$$

$$\frac{1791}{995} = \frac{171}{95}$$

denominator= 996

$$\frac{498}{996} = \frac{48}{96}$$

$$\frac{1494}{996} = \frac{144}{96}$$

$$\frac{2490}{996} = \frac{240}{96}$$

denominator= 998

$$\frac{499}{998} = \frac{49}{98}$$

$$\frac{1497}{998} = \frac{147}{98}$$

$$\frac{2495}{998} = \frac{245}{98}$$

$$\frac{3493}{998} = \frac{343}{98}$$

$$\frac{4491}{998} = \frac{441}{98}$$

Section 6

All the Anomalous Cancellations with the denominator with, 3, digits, and where the , 2, -th digit of the numerator is cancelled out with the, 2, -th digit of the denominator

denominator= 220

$$\frac{1210}{220} = \frac{110}{20}$$

denominator= 432

$$\frac{1404}{432} = \frac{104}{32}$$

denominator= 436

$$\frac{1417}{436} = \frac{117}{36}$$

denominator= 438

$$\frac{2409}{438} = \frac{209}{38}$$

denominator= 440

$$\frac{1430}{440} = \frac{130}{40}$$

$$\frac{2420}{440} = \frac{220}{40}$$

$$\frac{3410}{440} = \frac{310}{40}$$

denominator= 442

$$\frac{2431}{442} = \frac{231}{42}$$

$$\frac{6409}{442} = \frac{609}{42}$$

denominator= 540

$$\frac{1512}{540} = \frac{112}{40}$$

denominator= 545

$$\frac{1526}{545} = \frac{126}{45}$$

$$\frac{2507}{545} = \frac{207}{45}$$

denominator= 550

$$\frac{1540}{550} = \frac{140}{50}$$

$$\frac{2530}{550} = \frac{230}{50}$$

$$\frac{3520}{550} = \frac{320}{50}$$

$$\frac{4510}{550} = \frac{410}{50}$$

denominator= 640

$$\frac{1600}{640} = \frac{100}{40}$$

denominator= 642

$$\frac{1605}{642} = \frac{105}{42}$$

denominator= 644

$$\frac{1610}{644} = \frac{110}{44}$$

denominator= 646

$$\frac{1615}{646} = \frac{115}{46}$$

denominator= 648

$$\frac{1620}{648} = \frac{120}{48}$$

denominator= 650

$$\frac{1625}{650} = \frac{125}{50}$$

denominator= 652

$$\frac{1\cancel{6}30}{\cancel{6}52} = \frac{130}{52}$$

denominator= 654

$$\frac{1\cancel{6}35}{\cancel{6}54} = \frac{135}{54}$$

denominator= 656

$$\frac{1\cancel{6}40}{\cancel{6}56} = \frac{140}{56}$$

$$\frac{3\cancel{6}08}{\cancel{6}56} = \frac{308}{56}$$

denominator= 658

$$\frac{1\cancel{6}45}{\cancel{6}58} = \frac{145}{58}$$

$$\frac{3\cancel{6}19}{\cancel{6}58} = \frac{319}{58}$$

denominator= 660

$$\frac{1\cancel{6}50}{\cancel{6}60} = \frac{150}{60}$$

$$\frac{3\cancel{6}30}{\cancel{6}60} = \frac{330}{60}$$

$$\frac{5\cancel{6}10}{\cancel{6}60} = \frac{510}{60}$$

denominator= 662

$$\frac{1\cancel{6}55}{\cancel{6}62} = \frac{155}{62}$$

$$\frac{3\cancel{6}41}{\cancel{6}62} = \frac{341}{62}$$

$$\frac{5\cancel{6}27}{\cancel{6}62} = \frac{527}{62}$$

$$\frac{7\cancel{6}13}{\cancel{6}62} = \frac{713}{62}$$

denominator= 664

$$\frac{1\cancel{6}60}{\cancel{6}64} = \frac{160}{64}$$

$$\frac{3\cancel{6}52}{\cancel{6}64} = \frac{352}{64}$$

$$\frac{5\cancel{6}44}{\cancel{6}64} = \frac{544}{64}$$

$$\frac{7\cancel{6}36}{\cancel{6}64} = \frac{736}{64}$$

$$\frac{9628}{664} = \frac{928}{64}$$

$$\frac{11620}{664} = \frac{1120}{64}$$

$$\frac{13612}{664} = \frac{1312}{64}$$

$$\frac{15604}{664} = \frac{1504}{64}$$

denominator= 749

$$\frac{1712}{749} = \frac{112}{49}$$

denominator= 756

$$\frac{1728}{756} = \frac{128}{56}$$

$$\frac{2700}{756} = \frac{200}{56}$$

denominator= 763

$$\frac{1744}{763} = \frac{144}{63}$$

$$\frac{2725}{763} = \frac{225}{63}$$

$$\frac{3706}{763} = \frac{306}{63}$$

denominator= 770

$$\frac{1760}{770} = \frac{160}{70}$$

$$\frac{2750}{770} = \frac{250}{70}$$

$$\frac{3740}{770} = \frac{340}{70}$$

$$\frac{4730}{770} = \frac{430}{70}$$

$$\frac{5720}{770} = \frac{520}{70}$$

$$\frac{6710}{770} = \frac{610}{70}$$

denominator= 848

$$\frac{1802}{848} = \frac{102}{48}$$

denominator= 856

$$\frac{1819}{856} = \frac{119}{56}$$

denominator= 864

$$\frac{1\cancel{8}36}{\cancel{8}64} = \frac{136}{64}$$

$$\frac{2\cancel{8}08}{\cancel{8}64} = \frac{208}{64}$$

denominator= 868

$$\frac{2\cancel{8}21}{\cancel{8}68} = \frac{221}{68}$$

denominator= 872

$$\frac{1\cancel{8}53}{\cancel{8}72} = \frac{153}{72}$$

$$\frac{2\cancel{8}34}{\cancel{8}72} = \frac{234}{72}$$

$$\frac{3\cancel{8}15}{\cancel{8}72} = \frac{315}{72}$$

denominator= 874

$$\frac{4\cancel{8}07}{\cancel{8}74} = \frac{407}{74}$$

denominator= 876

$$\frac{2\cancel{8}47}{\cancel{8}76} = \frac{247}{76}$$

$$\frac{4\cancel{8}18}{\cancel{8}76} = \frac{418}{76}$$

denominator= 878

$$\frac{4\cancel{8}29}{\cancel{8}78} = \frac{429}{78}$$

denominator= 880

$$\frac{1\cancel{8}70}{\cancel{8}80} = \frac{170}{80}$$

$$\frac{2\cancel{8}60}{\cancel{8}80} = \frac{260}{80}$$

$$\frac{3\cancel{8}50}{\cancel{8}80} = \frac{350}{80}$$

$$\frac{4\cancel{8}40}{\cancel{8}80} = \frac{440}{80}$$

$$\frac{5\cancel{8}30}{\cancel{8}80} = \frac{530}{80}$$

$$\frac{6\cancel{8}20}{\cancel{8}80} = \frac{620}{80}$$

$$\frac{7\cancel{8}10}{\cancel{8}80} = \frac{710}{80}$$

denominator= 882

$$\frac{4851}{882} = \frac{451}{82}$$

denominator= 884

$$\frac{2873}{884} = \frac{273}{84}$$

$$\frac{4862}{884} = \frac{462}{84}$$

$$\frac{6851}{884} = \frac{651}{84}$$

$$\frac{10829}{884} = \frac{1029}{84}$$

$$\frac{12818}{884} = \frac{1218}{84}$$

$$\frac{14807}{884} = \frac{1407}{84}$$

denominator= 886

$$\frac{4873}{886} = \frac{473}{86}$$

$$\frac{12847}{886} = \frac{1247}{86}$$

$$\frac{20821}{886} = \frac{2021}{86}$$

This ends this book that took, 2.980, seconds to generate.

References

Shalosh B. Ekhad, c/o D. Zeilberger, Department of Mathematics, Rutgers University (New Brunswick), Hill Center-Busch Campus, 110 Frelinghuysen Rd., Piscataway, NJ 08854-8019, USA.

Email: ShaloshBEkhad at gmail dot com .