

The First 100 Prime Empirical Proof in Long Division

P₁ 2

Prime numbers are defined as numbers greater than 1 that have no positive divisors other than 1 and themselves. 1 is self-Prime. The sequence of Prime numbers starts with 2, 3, 5, 7, 11, and so on.

A Prime is any number only divisible by 1 and itself searching first that a number is not even if it divides by 2, optimising using a Vignette Sieve that if not only up to $n/2$ needs to be tested as a divisor, then 3 if not only up to $n/3$ needs to be tested as divisor, $n/5$, $n/7$, $n/11$, $n/13$, $n/17$, $n/19$, $n/23$, $n/29$, $n/31$ & so on so that only divisibility by a Prime needs to be checked up to \sqrt{n} for to prove not Prime & since for example we have ruled out that the number is a factor of three or two so there is no natural number greater than $n/3$ that can be a divisor.

Explanation: This prime is only divisible by 1 and itself. No division required.

<https://github.com/Willtech/Prime>

P₂ 3

$$3 \div 2 = 1 \text{ remainder } 1$$

$$\begin{array}{r} 2 \overline{) 3} \overset{1}{\text{---}} \\ \underline{2} \\ 1 \leftarrow \text{remainder} \end{array}$$

P₃ 5

$$5 \div 2 = 2 \text{ remainder } 1$$

$$\begin{array}{r} 2 \overline{) 5} \\ \underline{4} \\ 1 \leftarrow \text{remainder} \end{array}$$

P₄ 7

$$7 \div 2 = 3 \text{ remainder } 1$$

$$\begin{array}{r} 2 \overline{) 7^3} \\ \underline{6} \\ 1 \leftarrow \text{remainder} \end{array}$$

P₅ 11

$$11 \div 2 = 5 \text{ remainder } 1$$

$$\begin{array}{r} 2 \mid \overline{\overline{11}}^5 \\ \underline{10} \\ 1 \leftarrow \text{remainder} \end{array}$$

$$11 \div 3 = 3 \text{ remainder } 2$$

$$\begin{array}{r} 3 \overline{) 11} \\ \underline{9} \\ 2 \leftarrow \text{remainder} \end{array}$$

P₆ 13

$$13 \div 2 = 6 \text{ remainder } 1$$

$$\begin{array}{r} 6 \\ 2 \overline{) 13} \\ \underline{12} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$13 \div 3 = 4 \text{ remainder } 1$$

$$\begin{array}{r} 4 \\ 3 \overline{) 13} \\ \underline{12} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₇ 17

$$17 \div 2 = 8 \text{ remainder } 1$$

$$\begin{array}{r} 8 \\ 2 \overline{) 17} \\ \underline{16} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$17 \div 3 = 5 \text{ remainder } 2$$

$$\begin{array}{r} 5 \\ 3 \overline{) 17} \\ \underline{15} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₈ 19

$$19 \div 2 = 9 \text{ remainder } 1$$

$$\begin{array}{r} 9 \\ 2 \overline{) 19} \\ \underline{18} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$19 \div 3 = 6 \text{ remainder } 1$$

$$\begin{array}{r} 6 \\ 3 \overline{) 19} \\ \underline{18} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₉ 23

$$23 \div 2 = 11 \text{ remainder } 1$$

$$\begin{array}{r} 11 \\ 2 \overline{) 23} \\ \underline{22} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$23 \div 3 = 7 \text{ remainder } 2$$

$$\begin{array}{r} 7 \\ 3 \overline{) 23} \\ \underline{21} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₁₀ 29

$$29 \div 2 = 14 \text{ remainder } 1$$

$$\begin{array}{r} 14 \\ 2 \overline{) 29} \\ \underline{28} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$29 \div 3 = 9 \text{ remainder } 2$$

$$\begin{array}{r} 9 \\ 3 \overline{) 29} \\ \underline{27} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$29 \div 5 = 5 \text{ remainder } 4$$

$$\begin{array}{r} 5 \\ 5 \overline{) 29} \\ \underline{25} \\ 4 \end{array} \leftarrow \text{remainder}$$

P₁₁ 31

$$31 \div 2 = 15 \text{ remainder } 1$$

$$\begin{array}{r} 15 \\ 2 \overline{) 31} \\ \underline{30} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$31 \div 3 = 10 \text{ remainder } 1$$

$$\begin{array}{r} 10 \\ 3 \overline{) 31} \\ \underline{30} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$31 \div 5 = 6 \text{ remainder } 1$$

$$\begin{array}{r} 6 \\ 5 \overline{) 31} \\ \underline{30} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₁₂ 37

$$37 \div 2 = 18 \text{ remainder } 1$$

$$\begin{array}{r} 18 \\ 2 \overline{) 37} \\ \underline{36} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$37 \div 3 = 12 \text{ remainder } 1$$

$$\begin{array}{r} 12 \\ 3 \overline{) 37} \\ \underline{36} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$37 \div 5 = 7 \text{ remainder } 2$$

$$\begin{array}{r} 7 \\ 5 \overline{) 37} \\ \underline{35} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₁₃ 41

$$41 \div 2 = 20 \text{ remainder } 1$$

$$\begin{array}{r} 20 \\ 2 \overline{) 41} \\ \underline{40} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$41 \div 3 = 13 \text{ remainder } 2$$

$$\begin{array}{r} 13 \\ 3 \overline{) 41} \\ \underline{39} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$41 \div 5 = 8 \text{ remainder } 1$$

$$\begin{array}{r} 8 \\ 5 \overline{) 41} \\ \underline{40} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₁₄ 43

$$43 \div 2 = 21 \text{ remainder } 1$$

$$\begin{array}{r} 21 \\ 2 \overline{) 43} \\ \underline{42} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$43 \div 3 = 14 \text{ remainder } 1$$

$$\begin{array}{r} 14 \\ 3 \overline{) 43} \\ \underline{42} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$43 \div 5 = 8 \text{ remainder } 3$$

$$\begin{array}{r} 8 \\ 5 \overline{) 43} \\ \underline{40} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₁₅ 47

$$47 \div 2 = 23 \text{ remainder } 1$$

$$\begin{array}{r} 23 \\ 2 \overline{) 47} \\ \underline{46} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$47 \div 3 = 15 \text{ remainder } 2$$

$$\begin{array}{r} 15 \\ 3 \overline{) 47} \\ \underline{45} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$47 \div 5 = 9 \text{ remainder } 2$$

$$\begin{array}{r} 9 \\ 5 \overline{) 47} \\ \underline{45} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₁₆ 53

$$53 \div 2 = 26 \text{ remainder } 1$$

$$\begin{array}{r} 26 \\ 2 \overline{) 53} \\ \underline{52} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$53 \div 3 = 17 \text{ remainder } 2$$

$$\begin{array}{r} 17 \\ 3 \overline{) 53} \\ \underline{51} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$53 \div 5 = 10 \text{ remainder } 3$$

$$\begin{array}{r} 10 \\ 5 \overline{) 53} \\ \underline{50} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$53 \div 7 = 7 \text{ remainder } 4$$

$$\begin{array}{r} 7 \\ 7 \overline{) 53} \\ \underline{49} \\ 4 \end{array} \leftarrow \text{remainder}$$

P₁₇ 59

$$59 \div 2 = 29 \text{ remainder } 1$$

$$\begin{array}{r} 29 \\ 2 \overline{) 59} \\ \underline{58} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$59 \div 3 = 19 \text{ remainder } 2$$

$$\begin{array}{r} 19 \\ 3 \overline{) 59} \\ \underline{57} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$59 \div 5 = 11 \text{ remainder } 4$$

$$\begin{array}{r} 11 \\ 5 \overline{) 59} \\ \underline{55} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$59 \div 7 = 8 \text{ remainder } 3$$

$$\begin{array}{r} 8 \\ 7 \overline{) 59} \\ \underline{56} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₁₈ 61

$$61 \div 2 = 30 \text{ remainder } 1$$

$$\begin{array}{r} 30 \\ 2 \overline{) 61} \\ \underline{60} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$61 \div 3 = 20 \text{ remainder } 1$$

$$\begin{array}{r} 20 \\ 3 \overline{) 61} \\ \underline{60} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$61 \div 5 = 12 \text{ remainder } 1$$

$$\begin{array}{r} 12 \\ 5 \overline{) 61} \\ \underline{60} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$61 \div 7 = 8 \text{ remainder } 5$$

$$\begin{array}{r} 8 \\ 7 \overline{) 61} \\ \underline{56} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₁₉ 67

$$67 \div 2 = 33 \text{ remainder } 1$$

$$\begin{array}{r} 33 \\ 2 \overline{) 67} \\ \underline{66} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$67 \div 3 = 22 \text{ remainder } 1$$

$$\begin{array}{r} 22 \\ 3 \overline{) 67} \\ \underline{66} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$67 \div 5 = 13 \text{ remainder } 2$$

$$\begin{array}{r} 13 \\ 5 \overline{) 67} \\ \underline{65} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$67 \div 7 = 9 \text{ remainder } 4$$

$$\begin{array}{r} 9 \\ 7 \overline{) 67} \\ \underline{63} \\ 4 \end{array} \leftarrow \text{remainder}$$

P₂₀ 71

$$71 \div 2 = 35 \text{ remainder } 1$$

$$\begin{array}{r} 35 \\ 2 \overline{) 71} \\ \underline{70} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$71 \div 3 = 23 \text{ remainder } 2$$

$$\begin{array}{r} 23 \\ 3 \overline{) 71} \\ \underline{69} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$71 \div 5 = 14 \text{ remainder } 1$$

$$\begin{array}{r} 14 \\ 5 \overline{) 71} \\ \underline{70} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$71 \div 7 = 10 \text{ remainder } 1$$

$$\begin{array}{r} 10 \\ 7 \overline{) 71} \\ \underline{70} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₂₁ 73

$$73 \div 2 = 36 \text{ remainder } 1$$

$$\begin{array}{r} 36 \\ 2 \overline{) 73} \\ \underline{72} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$73 \div 3 = 24 \text{ remainder } 1$$

$$\begin{array}{r} 24 \\ 3 \overline{) 73} \\ \underline{72} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$73 \div 5 = 14 \text{ remainder } 3$$

$$\begin{array}{r} 14 \\ 5 \overline{) 73} \\ \underline{70} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$73 \div 7 = 10 \text{ remainder } 3$$

$$\begin{array}{r} 10 \\ 7 \overline{) 73} \\ \underline{70} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₂₂ 79

$$79 \div 2 = 39 \text{ remainder } 1$$

$$\begin{array}{r} 39 \\ 2 \overline{) 79} \\ \underline{78} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$79 \div 3 = 26 \text{ remainder } 1$$

$$\begin{array}{r} 26 \\ 3 \overline{) 79} \\ \underline{78} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$79 \div 5 = 15 \text{ remainder } 4$$

$$\begin{array}{r} 15 \\ 5 \overline{) 79} \\ \underline{75} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$79 \div 7 = 11 \text{ remainder } 2$$

$$\begin{array}{r} 11 \\ 7 \overline{) 79} \\ \underline{77} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₂₃ 83

$$83 \div 2 = 41 \text{ remainder } 1$$

$$\begin{array}{r} 41 \\ 2 \overline{) 83} \\ \underline{82} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$83 \div 3 = 27 \text{ remainder } 2$$

$$\begin{array}{r} 27 \\ 3 \overline{) 83} \\ \underline{81} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$83 \div 5 = 16 \text{ remainder } 3$$

$$\begin{array}{r} 16 \\ 5 \overline{) 83} \\ \underline{80} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$83 \div 7 = 11 \text{ remainder } 6$$

$$\begin{array}{r} 11 \\ 7 \overline{) 83} \\ \underline{77} \\ 6 \end{array} \leftarrow \text{remainder}$$

P₂₄ 89

$$89 \div 2 = 44 \text{ remainder } 1$$

$$\begin{array}{r} 44 \\ 2 \overline{) 89} \\ \underline{88} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$89 \div 3 = 29 \text{ remainder } 2$$

$$\begin{array}{r} 29 \\ 3 \overline{) 89} \\ \underline{87} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$89 \div 5 = 17 \text{ remainder } 4$$

$$\begin{array}{r} 17 \\ 5 \overline{) 89} \\ \underline{85} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$89 \div 7 = 12 \text{ remainder } 5$$

$$\begin{array}{r} 12 \\ 7 \overline{) 89} \\ \underline{84} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₂₅ 97

$$97 \div 2 = 48 \text{ remainder } 1$$

$$\begin{array}{r} 48 \\ 2 \overline{) 97} \\ \underline{96} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$97 \div 3 = 32 \text{ remainder } 1$$

$$\begin{array}{r} 32 \\ 3 \overline{) 97} \\ \underline{96} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$97 \div 5 = 19 \text{ remainder } 2$$

$$\begin{array}{r} 19 \\ 5 \overline{) 97} \\ \underline{95} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$97 \div 7 = 13 \text{ remainder } 6$$

$$\begin{array}{r} 13 \\ 7 \overline{) 97} \\ \underline{91} \\ 6 \end{array} \leftarrow \text{remainder}$$

P₂₆ 101

$$101 \div 2 = 50 \text{ remainder } 1$$

$$\begin{array}{r} 50 \\ 2 \overline{) 101} \\ \underline{100} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$101 \div 3 = 33 \text{ remainder } 2$$

$$\begin{array}{r} 33 \\ 3 \overline{) 101} \\ \underline{99} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$101 \div 5 = 20 \text{ remainder } 1$$

$$\begin{array}{r} 20 \\ 5 \overline{) 101} \\ \underline{100} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$101 \div 7 = 14 \text{ remainder } 3$$

$$\begin{array}{r} 14 \\ 7 \overline{) 101} \\ \underline{98} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₂₇ 103

$$103 \div 2 = 51 \text{ remainder } 1$$

$$\begin{array}{r} 51 \\ 2 \overline{) 103} \\ \underline{102} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$103 \div 3 = 34 \text{ remainder } 1$$

$$\begin{array}{r} 34 \\ 3 \overline{) 103} \\ \underline{102} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$103 \div 5 = 20 \text{ remainder } 3$$

$$\begin{array}{r} 20 \\ 5 \overline{) 103} \\ \underline{100} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$103 \div 7 = 14 \text{ remainder } 5$$

$$\begin{array}{r} 14 \\ 7 \overline{) 103} \\ \underline{98} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₂₈ 107

$$107 \div 2 = 53 \text{ remainder } 1$$

$$\begin{array}{r} 53 \\ 2 \overline{) 107} \\ \underline{106} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$107 \div 3 = 35 \text{ remainder } 2$$

$$\begin{array}{r} 35 \\ 3 \overline{) 107} \\ \underline{105} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$107 \div 5 = 21 \text{ remainder } 2$$

$$\begin{array}{r} 21 \\ 5 \overline{) 107} \\ \underline{105} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$107 \div 7 = 15 \text{ remainder } 2$$

$$\begin{array}{r} 15 \\ 7 \overline{) 107} \\ \underline{105} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₂₉ 109

$$109 \div 2 = 54 \text{ remainder } 1$$

$$\begin{array}{r} 54 \\ 2 \overline{) 109} \\ \underline{108} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$109 \div 3 = 36 \text{ remainder } 1$$

$$\begin{array}{r} 36 \\ 3 \overline{) 109} \\ \underline{108} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$109 \div 5 = 21 \text{ remainder } 4$$

$$\begin{array}{r} 21 \\ 5 \overline{) 109} \\ \underline{105} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$109 \div 7 = 15 \text{ remainder } 4$$

$$\begin{array}{r} 15 \\ 7 \overline{) 109} \\ \underline{105} \\ 4 \end{array} \leftarrow \text{remainder}$$

P₃₀ 113

$$113 \div 2 = 56 \text{ remainder } 1$$

$$\begin{array}{r} 56 \\ 2 \overline{) 113} \\ \underline{112} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$113 \div 3 = 37 \text{ remainder } 2$$

$$\begin{array}{r} 37 \\ 3 \overline{) 113} \\ \underline{111} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$113 \div 5 = 22 \text{ remainder } 3$$

$$\begin{array}{r} 22 \\ 5 \overline{) 113} \\ \underline{110} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$113 \div 7 = 16 \text{ remainder } 1$$

$$\begin{array}{r} 16 \\ 7 \overline{) 113} \\ \underline{112} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₃₁ 127

$$127 \div 2 = 63 \text{ remainder } 1$$

$$\begin{array}{r} 63 \\ 2 \overline{) 127} \\ \underline{126} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$127 \div 3 = 42 \text{ remainder } 1$$

$$\begin{array}{r} 42 \\ 3 \overline{) 127} \\ \underline{126} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$127 \div 5 = 25 \text{ remainder } 2$$

$$\begin{array}{r} 25 \\ 5 \overline{) 127} \\ \underline{125} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$127 \div 7 = 18 \text{ remainder } 1$$

$$\begin{array}{r} 18 \\ 7 \overline{) 127} \\ \underline{126} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$127 \div 11 = 11 \text{ remainder } 6$$

$$\begin{array}{r} 11 \\ 11 \overline{) 127} \\ \underline{121} \\ 6 \end{array} \leftarrow \text{remainder}$$

P₃₂ 131

$$131 \div 2 = 65 \text{ remainder } 1$$

$$\begin{array}{r} 65 \\ 2 \overline{) 131} \\ \underline{130} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$131 \div 3 = 43 \text{ remainder } 2$$

$$\begin{array}{r} 43 \\ 3 \overline{) 131} \\ \underline{129} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$131 \div 5 = 26 \text{ remainder } 1$$

$$\begin{array}{r} 26 \\ 5 \overline{) 131} \\ \underline{130} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$131 \div 7 = 18 \text{ remainder } 5$$

$$\begin{array}{r} 18 \\ 7 \overline{) 131} \\ \underline{126} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$131 \div 11 = 11 \text{ remainder } 10$$

$$\begin{array}{r} 11 \\ 11 \overline{) 131} \\ \underline{121} \\ 10 \end{array} \leftarrow \text{remainder}$$

P₃₃ 137

$$137 \div 2 = 68 \text{ remainder } 1$$

$$\begin{array}{r} 68 \\ 2 \overline{) 137} \\ \underline{136} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$137 \div 3 = 45 \text{ remainder } 2$$

$$\begin{array}{r} 45 \\ 3 \overline{) 137} \\ \underline{135} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$137 \div 5 = 27 \text{ remainder } 2$$

$$\begin{array}{r} 27 \\ 5 \overline{) 137} \\ \underline{135} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$137 \div 7 = 19 \text{ remainder } 4$$

$$\begin{array}{r} 19 \\ 7 \overline{) 137} \\ \underline{133} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$137 \div 11 = 12 \text{ remainder } 5$$

$$\begin{array}{r} 12 \\ 11 \overline{) 137} \\ \underline{132} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₃₄ 139

$$139 \div 2 = 69 \text{ remainder } 1$$

$$\begin{array}{r} 69 \\ 2 \overline{) 139} \\ \underline{138} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$139 \div 3 = 46 \text{ remainder } 1$$

$$\begin{array}{r} 46 \\ 3 \overline{) 139} \\ \underline{138} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$139 \div 5 = 27 \text{ remainder } 4$$

$$\begin{array}{r} 27 \\ 5 \overline{) 139} \\ \underline{135} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$139 \div 7 = 19 \text{ remainder } 6$$

$$\begin{array}{r} 19 \\ 7 \overline{) 139} \\ \underline{133} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$139 \div 11 = 12 \text{ remainder } 7$$

$$\begin{array}{r} 12 \\ 11 \overline{) 139} \\ \underline{132} \\ 7 \end{array} \leftarrow \text{remainder}$$

P₃₅ 149

$$149 \div 2 = 74 \text{ remainder } 1$$

$$\begin{array}{r} 74 \\ 2 \overline{) 149} \\ \underline{148} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$149 \div 3 = 49 \text{ remainder } 2$$

$$\begin{array}{r} 49 \\ 3 \overline{) 149} \\ \underline{147} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$149 \div 5 = 29 \text{ remainder } 4$$

$$\begin{array}{r} 29 \\ 5 \overline{) 149} \\ \underline{145} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$149 \div 7 = 21 \text{ remainder } 2$$

$$\begin{array}{r} 21 \\ 7 \overline{) 149} \\ \underline{147} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$149 \div 11 = 13 \text{ remainder } 6$$

$$\begin{array}{r} 13 \\ 11 \overline{) 149} \\ \underline{143} \\ 6 \end{array} \leftarrow \text{remainder}$$

P₃₆ 151

$$151 \div 2 = 75 \text{ remainder } 1$$

$$\begin{array}{r} 75 \\ 2 \overline{) 151} \\ \underline{150} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$151 \div 3 = 50 \text{ remainder } 1$$

$$\begin{array}{r} 50 \\ 3 \overline{) 151} \\ \underline{150} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$151 \div 5 = 30 \text{ remainder } 1$$

$$\begin{array}{r} 30 \\ 5 \overline{) 151} \\ \underline{150} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$151 \div 7 = 21 \text{ remainder } 4$$

$$\begin{array}{r} 21 \\ 7 \overline{) 151} \\ \underline{147} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$151 \div 11 = 13 \text{ remainder } 8$$

$$\begin{array}{r} 13 \\ 11 \overline{) 151} \\ \underline{143} \\ 8 \end{array} \leftarrow \text{remainder}$$

P₃₇ 157

$$157 \div 2 = 78 \text{ remainder } 1$$

$$\begin{array}{r} 78 \\ 2 \overline{) 157} \\ \underline{156} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$157 \div 3 = 52 \text{ remainder } 1$$

$$\begin{array}{r} 52 \\ 3 \overline{) 157} \\ \underline{156} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$157 \div 5 = 31 \text{ remainder } 2$$

$$\begin{array}{r} 31 \\ 5 \overline{) 157} \\ \underline{155} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$157 \div 7 = 22 \text{ remainder } 3$$

$$\begin{array}{r} 22 \\ 7 \overline{) 157} \\ \underline{154} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$157 \div 11 = 14 \text{ remainder } 3$$

$$\begin{array}{r} 14 \\ 11 \overline{) 157} \\ \underline{154} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₃₈ 163

$$163 \div 2 = 81 \text{ remainder } 1$$

$$\begin{array}{r} 81 \\ 2 \overline{) 163} \\ \underline{162} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$163 \div 3 = 54 \text{ remainder } 1$$

$$\begin{array}{r} 54 \\ 3 \overline{) 163} \\ \underline{162} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$163 \div 5 = 32 \text{ remainder } 3$$

$$\begin{array}{r} 32 \\ 5 \overline{) 163} \\ \underline{160} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$163 \div 7 = 23 \text{ remainder } 2$$

$$\begin{array}{r} 23 \\ 7 \overline{) 163} \\ \underline{161} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$163 \div 11 = 14 \text{ remainder } 9$$

$$\begin{array}{r} 14 \\ 11 \overline{) 163} \\ \underline{154} \\ 9 \end{array} \leftarrow \text{remainder}$$

P₃₉ 167

$$167 \div 2 = 83 \text{ remainder } 1$$

$$\begin{array}{r} 83 \\ 2 \overline{) 167} \\ \underline{166} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$167 \div 3 = 55 \text{ remainder } 2$$

$$\begin{array}{r} 55 \\ 3 \overline{) 167} \\ \underline{165} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$167 \div 5 = 33 \text{ remainder } 2$$

$$\begin{array}{r} 33 \\ 5 \overline{) 167} \\ \underline{165} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$167 \div 7 = 23 \text{ remainder } 6$$

$$\begin{array}{r} 23 \\ 7 \overline{) 167} \\ \underline{161} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$167 \div 11 = 15 \text{ remainder } 2$$

$$\begin{array}{r} 15 \\ 11 \overline{) 167} \\ \underline{165} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₄₀ 173

$$173 \div 2 = 86 \text{ remainder } 1$$

$$\begin{array}{r} 86 \\ 2 \overline{) 173} \\ \underline{172} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$173 \div 3 = 57 \text{ remainder } 2$$

$$\begin{array}{r} 57 \\ 3 \overline{) 173} \\ \underline{171} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$173 \div 5 = 34 \text{ remainder } 3$$

$$\begin{array}{r} 34 \\ 5 \overline{) 173} \\ \underline{170} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$173 \div 7 = 24 \text{ remainder } 5$$

$$\begin{array}{r} 24 \\ 7 \overline{) 173} \\ \underline{168} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$173 \div 11 = 15 \text{ remainder } 8$$

$$\begin{array}{r} 15 \\ 11 \overline{) 173} \\ \underline{165} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$173 \div 13 = 13 \text{ remainder } 4$$

$$\begin{array}{r} 13 \\ 13 \overline{) 173} \\ \underline{169} \\ 4 \end{array}$$

4 ← remainder

P₄₁ 179

$$179 \div 2 = 89 \text{ remainder } 1$$

$$\begin{array}{r} 89 \\ 2 \overline{) 179} \\ \underline{178} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$179 \div 3 = 59 \text{ remainder } 2$$

$$\begin{array}{r} 59 \\ 3 \overline{) 179} \\ \underline{177} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$179 \div 5 = 35 \text{ remainder } 4$$

$$\begin{array}{r} 35 \\ 5 \overline{) 179} \\ \underline{175} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$179 \div 7 = 25 \text{ remainder } 4$$

$$\begin{array}{r} 25 \\ 7 \overline{) 179} \\ \underline{175} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$179 \div 11 = 16 \text{ remainder } 3$$

$$\begin{array}{r} 16 \\ 11 \overline{) 179} \\ \underline{176} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$179 \div 13 = 13 \text{ remainder } 10$$

$$\begin{array}{r} 13 \\ 13 \overline{) 179} \\ \underline{169} \\ 10 \end{array} \leftarrow \text{remainder}$$

P₄₂ 181

$$181 \div 2 = 90 \text{ remainder } 1$$

$$\begin{array}{r} 90 \\ 2 \overline{) 181} \\ \underline{180} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$181 \div 3 = 60 \text{ remainder } 1$$

$$\begin{array}{r} 60 \\ 3 \overline{) 181} \\ \underline{180} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$181 \div 5 = 36 \text{ remainder } 1$$

$$\begin{array}{r} 36 \\ 5 \overline{) 181} \\ \underline{180} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$181 \div 7 = 25 \text{ remainder } 6$$

$$\begin{array}{r} 25 \\ 7 \overline{) 181} \\ \underline{175} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$181 \div 11 = 16 \text{ remainder } 5$$

$$\begin{array}{r} 16 \\ 11 \overline{) 181} \\ \underline{176} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$181 \div 13 = 13 \text{ remainder } 12$$

$$\begin{array}{r} 13 \\ 13 \overline{) 181} \\ \underline{169} \\ 12 \end{array} \leftarrow \text{remainder}$$

P₄₃ 191

$$191 \div 2 = 95 \text{ remainder } 1$$

$$\begin{array}{r} 95 \\ 2 \overline{) 191} \\ \underline{190} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$191 \div 3 = 63 \text{ remainder } 2$$

$$\begin{array}{r} 63 \\ 3 \overline{) 191} \\ \underline{189} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$191 \div 5 = 38 \text{ remainder } 1$$

$$\begin{array}{r} 38 \\ 5 \overline{) 191} \\ \underline{190} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$191 \div 7 = 27 \text{ remainder } 2$$

$$\begin{array}{r} 27 \\ 7 \overline{) 191} \\ \underline{189} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$191 \div 11 = 17 \text{ remainder } 4$$

$$\begin{array}{r} 17 \\ 11 \overline{) 191} \\ \underline{187} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$191 \div 13 = 14 \text{ remainder } 9$$

$$\begin{array}{r} 14 \\ 13 \overline{) 191} \\ \underline{182} \\ 9 \end{array} \leftarrow \text{remainder}$$

P₄₄ 193

$$193 \div 2 = 96 \text{ remainder } 1$$

$$\begin{array}{r} 96 \\ 2 \overline{) 193} \\ \underline{192} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$193 \div 3 = 64 \text{ remainder } 1$$

$$\begin{array}{r} 64 \\ 3 \overline{) 193} \\ \underline{192} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$193 \div 5 = 38 \text{ remainder } 3$$

$$\begin{array}{r} 38 \\ 5 \overline{) 193} \\ \underline{190} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$193 \div 7 = 27 \text{ remainder } 4$$

$$\begin{array}{r} 27 \\ 7 \overline{) 193} \\ \underline{189} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$193 \div 11 = 17 \text{ remainder } 6$$

$$\begin{array}{r} 17 \\ 11 \overline{) 193} \\ \underline{187} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$193 \div 13 = 14 \text{ remainder } 11$$

$$\begin{array}{r} 14 \\ 13 \overline{) 193} \\ \underline{182} \\ 11 \end{array} \leftarrow \text{remainder}$$

P₄₅ 197

$$197 \div 2 = 98 \text{ remainder } 1$$

$$\begin{array}{r} 98 \\ 2 \overline{) 197} \\ \underline{196} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$197 \div 3 = 65 \text{ remainder } 2$$

$$\begin{array}{r} 65 \\ 3 \overline{) 197} \\ \underline{195} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$197 \div 5 = 39 \text{ remainder } 2$$

$$\begin{array}{r} 39 \\ 5 \overline{) 197} \\ \underline{195} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$197 \div 7 = 28 \text{ remainder } 1$$

$$\begin{array}{r} 28 \\ 7 \overline{) 197} \\ \underline{196} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$197 \div 11 = 17 \text{ remainder } 10$$

$$\begin{array}{r} 17 \\ 11 \overline{) 197} \\ \underline{187} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$197 \div 13 = 15 \text{ remainder } 2$$

$$\begin{array}{r} 15 \\ 13 \overline{) 197} \\ \underline{195} \\ 2 \end{array}$$

2 ← remainder

P₄₆ 199

$$199 \div 2 = 99 \text{ remainder } 1$$

$$\begin{array}{r} 99 \\ 2 \overline{) 199} \\ \underline{198} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$199 \div 3 = 66 \text{ remainder } 1$$

$$\begin{array}{r} 66 \\ 3 \overline{) 199} \\ \underline{198} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$199 \div 5 = 39 \text{ remainder } 4$$

$$\begin{array}{r} 39 \\ 5 \overline{) 199} \\ \underline{195} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$199 \div 7 = 28 \text{ remainder } 3$$

$$\begin{array}{r} 28 \\ 7 \overline{) 199} \\ \underline{196} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$199 \div 11 = 18 \text{ remainder } 1$$

$$\begin{array}{r} 18 \\ 11 \overline{) 199} \\ \underline{198} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$199 \div 13 = 15 \text{ remainder } 4$$

$$\begin{array}{r} 15 \\ 13 \overline{) 199} \\ \underline{195} \\ 4 \end{array}$$

4 ← remainder

P₄₇ 211

$$211 \div 2 = 105 \text{ remainder } 1$$

$$\begin{array}{r} 105 \\ 2 \overline{) 211} \\ \underline{210} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$211 \div 3 = 70 \text{ remainder } 1$$

$$\begin{array}{r} 70 \\ 3 \overline{) 211} \\ \underline{210} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$211 \div 5 = 42 \text{ remainder } 1$$

$$\begin{array}{r} 42 \\ 5 \overline{) 211} \\ \underline{210} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$211 \div 7 = 30 \text{ remainder } 1$$

$$\begin{array}{r} 30 \\ 7 \overline{) 211} \\ \underline{210} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$211 \div 11 = 19 \text{ remainder } 2$$

$$\begin{array}{r} 19 \\ 11 \overline{) 211} \\ \underline{209} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$211 \div 13 = 16 \text{ remainder } 3$$

$$\begin{array}{r} 16 \\ 13 \overline{) 211} \\ \underline{208} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₄₈ 223

$$223 \div 2 = 111 \text{ remainder } 1$$

$$\begin{array}{r} 111 \\ 2 \overline{) 223} \\ \underline{222} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$223 \div 3 = 74 \text{ remainder } 1$$

$$\begin{array}{r} 74 \\ 3 \overline{) 223} \\ \underline{222} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$223 \div 5 = 44 \text{ remainder } 3$$

$$\begin{array}{r} 44 \\ 5 \overline{) 223} \\ \underline{220} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$223 \div 7 = 31 \text{ remainder } 6$$

$$\begin{array}{r} 31 \\ 7 \overline{) 223} \\ \underline{217} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$223 \div 11 = 20 \text{ remainder } 3$$

$$\begin{array}{r} 20 \\ 11 \overline{) 223} \\ \underline{220} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$223 \div 13 = 17 \text{ remainder } 2$$

$$\begin{array}{r} 17 \\ 13 \overline{) 223} \\ \underline{221} \\ 2 \end{array}$$

2 ← remainder

P₄₉ 227

$$227 \div 2 = 113 \text{ remainder } 1$$

$$\begin{array}{r} 113 \\ 2 \overline{) 227} \\ \underline{226} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$227 \div 3 = 75 \text{ remainder } 2$$

$$\begin{array}{r} 75 \\ 3 \overline{) 227} \\ \underline{225} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$227 \div 5 = 45 \text{ remainder } 2$$

$$\begin{array}{r} 45 \\ 5 \overline{) 227} \\ \underline{225} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$227 \div 7 = 32 \text{ remainder } 3$$

$$\begin{array}{r} 32 \\ 7 \overline{) 227} \\ \underline{224} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$227 \div 11 = 20 \text{ remainder } 7$$

$$\begin{array}{r} 20 \\ 11 \overline{) 227} \\ \underline{220} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$227 \div 13 = 17 \text{ remainder } 6$$

$$\begin{array}{r} 17 \\ 13 \overline{) 227} \\ \underline{221} \\ 6 \end{array}$$

6 ← remainder

P₅₀ 229

$$229 \div 2 = 114 \text{ remainder } 1$$

$$\begin{array}{r} 114 \\ 2 \overline{) 229} \\ \underline{228} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$229 \div 3 = 76 \text{ remainder } 1$$

$$\begin{array}{r} 76 \\ 3 \overline{) 229} \\ \underline{228} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$229 \div 5 = 45 \text{ remainder } 4$$

$$\begin{array}{r} 45 \\ 5 \overline{) 229} \\ \underline{225} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$229 \div 7 = 32 \text{ remainder } 5$$

$$\begin{array}{r} 32 \\ 7 \overline{) 229} \\ \underline{224} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$229 \div 11 = 20 \text{ remainder } 9$$

$$\begin{array}{r} 20 \\ 11 \overline{) 229} \\ \underline{220} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$229 \div 13 = 17 \text{ remainder } 8$$

$$\begin{array}{r} 17 \\ 13 \overline{) 229} \\ \underline{221} \\ 8 \end{array}$$

8 ← remainder

P₅₁ 233

$$233 \div 2 = 116 \text{ remainder } 1$$

$$\begin{array}{r} 116 \\ 2 \overline{) 233} \\ \underline{232} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$233 \div 3 = 77 \text{ remainder } 2$$

$$\begin{array}{r} 77 \\ 3 \overline{) 233} \\ \underline{231} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$233 \div 5 = 46 \text{ remainder } 3$$

$$\begin{array}{r} 46 \\ 5 \overline{) 233} \\ \underline{230} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$233 \div 7 = 33 \text{ remainder } 2$$

$$\begin{array}{r} 33 \\ 7 \overline{) 233} \\ \underline{231} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$233 \div 11 = 21 \text{ remainder } 2$$

$$\begin{array}{r} 21 \\ 11 \overline{) 233} \\ \underline{231} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$233 \div 13 = 17 \text{ remainder } 12$$

$$\begin{array}{r} 17 \\ 13 \overline{) 233} \\ \underline{221} \\ 12 \end{array} \leftarrow \text{remainder}$$

P₅₂ 239

$$239 \div 2 = 119 \text{ remainder } 1$$

$$\begin{array}{r} 119 \\ 2 \overline{) 239} \\ \underline{238} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$239 \div 3 = 79 \text{ remainder } 2$$

$$\begin{array}{r} 79 \\ 3 \overline{) 239} \\ \underline{237} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$239 \div 5 = 47 \text{ remainder } 4$$

$$\begin{array}{r} 47 \\ 5 \overline{) 239} \\ \underline{235} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$239 \div 7 = 34 \text{ remainder } 1$$

$$\begin{array}{r} 34 \\ 7 \overline{) 239} \\ \underline{238} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$239 \div 11 = 21 \text{ remainder } 8$$

$$\begin{array}{r} 21 \\ 11 \overline{) 239} \\ \underline{231} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$239 \div 13 = 18 \text{ remainder } 5$$

$$\begin{array}{r} 18 \\ 13 \overline{) 239} \\ \underline{234} \\ 5 \end{array}$$

5 ← remainder

P₅₃ 241

$$241 \div 2 = 120 \text{ remainder } 1$$

$$\begin{array}{r} 120 \\ 2 \overline{) 241} \\ \underline{240} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$241 \div 3 = 80 \text{ remainder } 1$$

$$\begin{array}{r} 80 \\ 3 \overline{) 241} \\ \underline{240} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$241 \div 5 = 48 \text{ remainder } 1$$

$$\begin{array}{r} 48 \\ 5 \overline{) 241} \\ \underline{240} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$241 \div 7 = 34 \text{ remainder } 3$$

$$\begin{array}{r} 34 \\ 7 \overline{) 241} \\ \underline{238} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$241 \div 11 = 21 \text{ remainder } 10$$

$$\begin{array}{r} 21 \\ 11 \overline{) 241} \\ \underline{231} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$241 \div 13 = 18 \text{ remainder } 7$$

$$\begin{array}{r} 18 \\ 13 \overline{) 241} \\ \underline{234} \\ 7 \end{array} \leftarrow \text{remainder}$$

P₅₄ 251

$$251 \div 2 = 125 \text{ remainder } 1$$

$$\begin{array}{r} 125 \\ 2 \overline{) 251} \\ \underline{250} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$251 \div 3 = 83 \text{ remainder } 2$$

$$\begin{array}{r} 83 \\ 3 \overline{) 251} \\ \underline{249} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$251 \div 5 = 50 \text{ remainder } 1$$

$$\begin{array}{r} 50 \\ 5 \overline{) 251} \\ \underline{250} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$251 \div 7 = 35 \text{ remainder } 6$$

$$\begin{array}{r} 35 \\ 7 \overline{) 251} \\ \underline{245} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$251 \div 11 = 22 \text{ remainder } 9$$

$$\begin{array}{r} 22 \\ 11 \overline{) 251} \\ \underline{242} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$251 \div 13 = 19 \text{ remainder } 4$$

$$\begin{array}{r} 19 \\ 13 \overline{) 251} \\ \underline{247} \\ 4 \end{array}$$

4 ← remainder

P₅₅ 257

$$257 \div 2 = 128 \text{ remainder } 1$$

$$\begin{array}{r} 128 \\ 2 \overline{) 257} \\ \underline{256} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$257 \div 3 = 85 \text{ remainder } 2$$

$$\begin{array}{r} 85 \\ 3 \overline{) 257} \\ \underline{255} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$257 \div 5 = 51 \text{ remainder } 2$$

$$\begin{array}{r} 51 \\ 5 \overline{) 257} \\ \underline{255} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$257 \div 7 = 36 \text{ remainder } 5$$

$$\begin{array}{r} 36 \\ 7 \overline{) 257} \\ \underline{252} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$257 \div 11 = 23 \text{ remainder } 4$$

$$\begin{array}{r} 23 \\ 11 \overline{) 257} \\ \underline{253} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$257 \div 13 = 19 \text{ remainder } 10$$

$$\begin{array}{r} 19 \\ 13 \overline{) 257} \\ \underline{247} \\ 10 \end{array} \leftarrow \text{remainder}$$

P₅₆ 263

$$263 \div 2 = 131 \text{ remainder } 1$$

$$\begin{array}{r} 131 \\ 2 \overline{) 263} \\ \underline{262} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$263 \div 3 = 87 \text{ remainder } 2$$

$$\begin{array}{r} 87 \\ 3 \overline{) 263} \\ \underline{261} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$263 \div 5 = 52 \text{ remainder } 3$$

$$\begin{array}{r} 52 \\ 5 \overline{) 263} \\ \underline{260} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$263 \div 7 = 37 \text{ remainder } 4$$

$$\begin{array}{r} 37 \\ 7 \overline{) 263} \\ \underline{259} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$263 \div 11 = 23 \text{ remainder } 10$$

$$\begin{array}{r} 23 \\ 11 \overline{) 263} \\ \underline{253} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$263 \div 13 = 20 \text{ remainder } 3$$

$$\begin{array}{r} 20 \\ 13 \overline{) 263} \\ \underline{260} \\ 3 \end{array}$$

3 ← remainder

P₅₇ 269

$$269 \div 2 = 134 \text{ remainder } 1$$

$$\begin{array}{r} 134 \\ 2 \overline{) 269} \\ \underline{268} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$269 \div 3 = 89 \text{ remainder } 2$$

$$\begin{array}{r} 89 \\ 3 \overline{) 269} \\ \underline{267} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$269 \div 5 = 53 \text{ remainder } 4$$

$$\begin{array}{r} 53 \\ 5 \overline{) 269} \\ \underline{265} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$269 \div 7 = 38 \text{ remainder } 3$$

$$\begin{array}{r} 38 \\ 7 \overline{) 269} \\ \underline{266} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$269 \div 11 = 24 \text{ remainder } 5$$

$$\begin{array}{r} 24 \\ 11 \overline{) 269} \\ \underline{264} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$269 \div 13 = 20 \text{ remainder } 9$$

$$\begin{array}{r} 20 \\ 13 \overline{) 269} \\ \underline{260} \\ 9 \end{array}$$

9 ← remainder

P₅₈ 271

$$271 \div 2 = 135 \text{ remainder } 1$$

$$\begin{array}{r} 135 \\ 2 \overline{) 271} \\ \underline{270} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$271 \div 3 = 90 \text{ remainder } 1$$

$$\begin{array}{r} 90 \\ 3 \overline{) 271} \\ \underline{270} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$271 \div 5 = 54 \text{ remainder } 1$$

$$\begin{array}{r} 54 \\ 5 \overline{) 271} \\ \underline{270} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$271 \div 7 = 38 \text{ remainder } 5$$

$$\begin{array}{r} 38 \\ 7 \overline{) 271} \\ \underline{266} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$271 \div 11 = 24 \text{ remainder } 7$$

$$\begin{array}{r} 24 \\ 11 \overline{) 271} \\ \underline{264} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$271 \div 13 = 20 \text{ remainder } 11$$

$$\begin{array}{r} 20 \\ 13 \overline{) 271} \\ \underline{260} \\ 11 \end{array} \leftarrow \text{remainder}$$

P₅₉ 277

$$277 \div 2 = 138 \text{ remainder } 1$$

$$\begin{array}{r} 138 \\ 2 \overline{) 277} \\ \underline{276} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$277 \div 3 = 92 \text{ remainder } 1$$

$$\begin{array}{r} 92 \\ 3 \overline{) 277} \\ \underline{276} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$277 \div 5 = 55 \text{ remainder } 2$$

$$\begin{array}{r} 55 \\ 5 \overline{) 277} \\ \underline{275} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$277 \div 7 = 39 \text{ remainder } 4$$

$$\begin{array}{r} 39 \\ 7 \overline{) 277} \\ \underline{273} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$277 \div 11 = 25 \text{ remainder } 2$$

$$\begin{array}{r} 25 \\ 11 \overline{) 277} \\ \underline{275} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$277 \div 13 = 21 \text{ remainder } 4$$

$$\begin{array}{r} 21 \\ 13 \overline{) 277} \\ \underline{273} \\ 4 \end{array}$$

4 ← remainder

P₆₀ 281

$$281 \div 2 = 140 \text{ remainder } 1$$

$$\begin{array}{r} 140 \\ 2 \overline{) 281} \\ \underline{280} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$281 \div 3 = 93 \text{ remainder } 2$$

$$\begin{array}{r} 93 \\ 3 \overline{) 281} \\ \underline{279} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$281 \div 5 = 56 \text{ remainder } 1$$

$$\begin{array}{r} 56 \\ 5 \overline{) 281} \\ \underline{280} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$281 \div 7 = 40 \text{ remainder } 1$$

$$\begin{array}{r} 40 \\ 7 \overline{) 281} \\ \underline{280} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$281 \div 11 = 25 \text{ remainder } 6$$

$$\begin{array}{r} 25 \\ 11 \overline{) 281} \\ \underline{275} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$281 \div 13 = 21 \text{ remainder } 8$$

$$\begin{array}{r} 21 \\ 13 \overline{) 281} \\ \underline{273} \\ 8 \end{array}$$

8 ← remainder

P₆₁ 283

$$283 \div 2 = 141 \text{ remainder } 1$$

$$\begin{array}{r} 141 \\ 2 \overline{) 283} \\ \underline{282} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$283 \div 3 = 94 \text{ remainder } 1$$

$$\begin{array}{r} 94 \\ 3 \overline{) 283} \\ \underline{282} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$283 \div 5 = 56 \text{ remainder } 3$$

$$\begin{array}{r} 56 \\ 5 \overline{) 283} \\ \underline{280} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$283 \div 7 = 40 \text{ remainder } 3$$

$$\begin{array}{r} 40 \\ 7 \overline{) 283} \\ \underline{280} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$283 \div 11 = 25 \text{ remainder } 8$$

$$\begin{array}{r} 25 \\ 11 \overline{) 283} \\ \underline{275} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$283 \div 13 = 21 \text{ remainder } 10$$

$$\begin{array}{r} 21 \\ 13 \overline{) 283} \\ \underline{273} \\ 10 \end{array} \leftarrow \text{remainder}$$

P₆₂ 293

$$293 \div 2 = 146 \text{ remainder } 1$$

$$\begin{array}{r} 146 \\ 2 \overline{) 293} \\ \underline{292} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$293 \div 3 = 97 \text{ remainder } 2$$

$$\begin{array}{r} 97 \\ 3 \overline{) 293} \\ \underline{291} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$293 \div 5 = 58 \text{ remainder } 3$$

$$\begin{array}{r} 58 \\ 5 \overline{) 293} \\ \underline{290} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$293 \div 7 = 41 \text{ remainder } 6$$

$$\begin{array}{r} 41 \\ 7 \overline{) 293} \\ \underline{287} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$293 \div 11 = 26 \text{ remainder } 7$$

$$\begin{array}{r} 26 \\ 11 \overline{) 293} \\ \underline{286} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$293 \div 13 = 22 \text{ remainder } 7$$

$$\begin{array}{r} 22 \\ 13 \overline{) 293} \\ \underline{286} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$293 \div 17 = 17 \text{ remainder } 4$$

$$\begin{array}{r} 17 \\ 17 \overline{) 293} \\ \underline{289} \\ 4 \end{array} \leftarrow \text{remainder}$$

P₆₃ 307

$$307 \div 2 = 153 \text{ remainder } 1$$

$$\begin{array}{r} 153 \\ 2 \overline{) 307} \\ \underline{306} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$307 \div 3 = 102 \text{ remainder } 1$$

$$\begin{array}{r} 102 \\ 3 \overline{) 307} \\ \underline{306} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$307 \div 5 = 61 \text{ remainder } 2$$

$$\begin{array}{r} 61 \\ 5 \overline{) 307} \\ \underline{305} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$307 \div 7 = 43 \text{ remainder } 6$$

$$\begin{array}{r} 43 \\ 7 \overline{) 307} \\ \underline{301} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$307 \div 11 = 27 \text{ remainder } 10$$

$$\begin{array}{r} 27 \\ 11 \overline{) 307} \\ \underline{297} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$307 \div 13 = 23 \text{ remainder } 8$$

$$\begin{array}{r} 23 \\ 13 \overline{) 307} \\ \underline{299} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$307 \div 17 = 18 \text{ remainder } 1$$

$$\begin{array}{r} 18 \\ 17 \overline{) 307} \\ \underline{306} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₆₄ 311

$$311 \div 2 = 155 \text{ remainder } 1$$

$$\begin{array}{r} 155 \\ 2 \overline{) 311} \\ \underline{310} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$311 \div 3 = 103 \text{ remainder } 2$$

$$\begin{array}{r} 103 \\ 3 \overline{) 311} \\ \underline{309} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$311 \div 5 = 62 \text{ remainder } 1$$

$$\begin{array}{r} 62 \\ 5 \overline{) 311} \\ \underline{310} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$311 \div 7 = 44 \text{ remainder } 3$$

$$\begin{array}{r} 44 \\ 7 \overline{) 311} \\ \underline{308} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$311 \div 11 = 28 \text{ remainder } 3$$

$$\begin{array}{r} 28 \\ 11 \overline{) 311} \\ \underline{308} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$311 \div 13 = 23 \text{ remainder } 12$$

$$\begin{array}{r} 23 \\ 13 \overline{) 311} \\ \underline{299} \\ 12 \end{array} \leftarrow \text{remainder}$$

$$311 \div 17 = 18 \text{ remainder } 5$$

$$\begin{array}{r} 18 \\ 17 \overline{) 311} \\ \underline{306} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₆₅ 313

$$313 \div 2 = 156 \text{ remainder } 1$$

$$\begin{array}{r} 156 \\ 2 \overline{) 313} \\ \underline{312} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$313 \div 3 = 104 \text{ remainder } 1$$

$$\begin{array}{r} 104 \\ 3 \overline{) 313} \\ \underline{312} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$313 \div 5 = 62 \text{ remainder } 3$$

$$\begin{array}{r} 62 \\ 5 \overline{) 313} \\ \underline{310} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$313 \div 7 = 44 \text{ remainder } 5$$

$$\begin{array}{r} 44 \\ 7 \overline{) 313} \\ \underline{308} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$313 \div 11 = 28 \text{ remainder } 5$$

$$\begin{array}{r} 28 \\ 11 \overline{) 313} \\ \underline{308} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$313 \div 13 = 24 \text{ remainder } 1$$

$$\begin{array}{r} 24 \\ 13 \overline{) 313} \\ \underline{312} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$313 \div 17 = 18 \text{ remainder } 7$$

$$\begin{array}{r} 18 \\ 17 \overline{) 313} \\ \underline{306} \\ 7 \end{array} \leftarrow \text{remainder}$$

P₆₆ 317

$$317 \div 2 = 158 \text{ remainder } 1$$

$$\begin{array}{r} 158 \\ 2 \overline{) 317} \\ \underline{316} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$317 \div 3 = 105 \text{ remainder } 2$$

$$\begin{array}{r} 105 \\ 3 \overline{) 317} \\ \underline{315} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$317 \div 5 = 63 \text{ remainder } 2$$

$$\begin{array}{r} 63 \\ 5 \overline{) 317} \\ \underline{315} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$317 \div 7 = 45 \text{ remainder } 2$$

$$\begin{array}{r} 45 \\ 7 \overline{) 317} \\ \underline{315} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$317 \div 11 = 28 \text{ remainder } 9$$

$$\begin{array}{r} 28 \\ 11 \overline{) 317} \\ \underline{308} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$317 \div 13 = 24 \text{ remainder } 5$$

$$\begin{array}{r} 24 \\ 13 \overline{) 317} \\ \underline{312} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$317 \div 17 = 18 \text{ remainder } 11$$

$$\begin{array}{r} 18 \\ 17 \overline{) 317} \\ \underline{306} \\ 11 \end{array} \leftarrow \text{remainder}$$

P₆₇ 331

$$331 \div 2 = 165 \text{ remainder } 1$$

$$\begin{array}{r} 165 \\ 2 \overline{) 331} \\ \underline{330} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$331 \div 3 = 110 \text{ remainder } 1$$

$$\begin{array}{r} 110 \\ 3 \overline{) 331} \\ \underline{330} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$331 \div 5 = 66 \text{ remainder } 1$$

$$\begin{array}{r} 66 \\ 5 \overline{) 331} \\ \underline{330} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$331 \div 7 = 47 \text{ remainder } 2$$

$$\begin{array}{r} 47 \\ 7 \overline{) 331} \\ \underline{329} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$331 \div 11 = 30 \text{ remainder } 1$$

$$\begin{array}{r} 30 \\ 11 \overline{) 331} \\ \underline{330} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$331 \div 13 = 25 \text{ remainder } 6$$

$$\begin{array}{r} 25 \\ 13 \overline{) 331} \\ \underline{325} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$331 \div 17 = 19 \text{ remainder } 8$$

$$\begin{array}{r} 19 \\ 17 \overline{) 331} \\ \underline{323} \\ 8 \end{array} \leftarrow \text{remainder}$$

P₆₈ 337

$$337 \div 2 = 168 \text{ remainder } 1$$

$$\begin{array}{r} 168 \\ 2 \overline{) 337} \\ \underline{336} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$337 \div 3 = 112 \text{ remainder } 1$$

$$\begin{array}{r} 112 \\ 3 \overline{) 337} \\ \underline{336} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$337 \div 5 = 67 \text{ remainder } 2$$

$$\begin{array}{r} 67 \\ 5 \overline{) 337} \\ \underline{335} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$337 \div 7 = 48 \text{ remainder } 1$$

$$\begin{array}{r} 48 \\ 7 \overline{) 337} \\ \underline{336} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$337 \div 11 = 30 \text{ remainder } 7$$

$$\begin{array}{r} 30 \\ 11 \overline{) 337} \\ \underline{330} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$337 \div 13 = 25 \text{ remainder } 12$$

$$\begin{array}{r} 25 \\ 13 \overline{) 337} \\ \underline{325} \\ 12 \end{array} \leftarrow \text{remainder}$$

$$337 \div 17 = 19 \text{ remainder } 14$$

$$\begin{array}{r} 19 \\ 17 \overline{) 337} \\ \underline{323} \\ 14 \end{array} \leftarrow \text{remainder}$$

P₆₉ 347

$$347 \div 2 = 173 \text{ remainder } 1$$

$$\begin{array}{r} 173 \\ 2 \overline{) 347} \\ \underline{346} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$347 \div 3 = 115 \text{ remainder } 2$$

$$\begin{array}{r} 115 \\ 3 \overline{) 347} \\ \underline{345} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$347 \div 5 = 69 \text{ remainder } 2$$

$$\begin{array}{r} 69 \\ 5 \overline{) 347} \\ \underline{345} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$347 \div 7 = 49 \text{ remainder } 4$$

$$\begin{array}{r} 49 \\ 7 \overline{) 347} \\ \underline{343} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$347 \div 11 = 31 \text{ remainder } 6$$

$$\begin{array}{r} 31 \\ 11 \overline{) 347} \\ \underline{341} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$347 \div 13 = 26 \text{ remainder } 9$$

$$\begin{array}{r} 26 \\ 13 \overline{) 347} \\ \underline{338} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$347 \div 17 = 20 \text{ remainder } 7$$

$$\begin{array}{r} 20 \\ 17 \overline{) 347} \\ \underline{340} \\ 7 \end{array} \leftarrow \text{remainder}$$

P₇₀ 349

$$349 \div 2 = 174 \text{ remainder } 1$$

$$\begin{array}{r} 174 \\ 2 \overline{) 349} \\ \underline{348} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$349 \div 3 = 116 \text{ remainder } 1$$

$$\begin{array}{r} 116 \\ 3 \overline{) 349} \\ \underline{348} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$349 \div 5 = 69 \text{ remainder } 4$$

$$\begin{array}{r} 69 \\ 5 \overline{) 349} \\ \underline{345} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$349 \div 7 = 49 \text{ remainder } 6$$

$$\begin{array}{r} 49 \\ 7 \overline{) 349} \\ \underline{343} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$349 \div 11 = 31 \text{ remainder } 8$$

$$\begin{array}{r} 31 \\ 11 \overline{) 349} \\ \underline{341} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$349 \div 13 = 26 \text{ remainder } 11$$

$$\begin{array}{r} 26 \\ 13 \overline{) 349} \\ \underline{338} \\ 11 \end{array} \leftarrow \text{remainder}$$

$$349 \div 17 = 20 \text{ remainder } 9$$

$$\begin{array}{r} 20 \\ 17 \overline{) 349} \\ \underline{340} \\ 9 \end{array} \leftarrow \text{remainder}$$

P₇₁ 353

$$353 \div 2 = 176 \text{ remainder } 1$$

$$\begin{array}{r} 176 \\ 2 \overline{) 353} \\ \underline{352} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$353 \div 3 = 117 \text{ remainder } 2$$

$$\begin{array}{r} 117 \\ 3 \overline{) 353} \\ \underline{351} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$353 \div 5 = 70 \text{ remainder } 3$$

$$\begin{array}{r} 70 \\ 5 \overline{) 353} \\ \underline{350} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$353 \div 7 = 50 \text{ remainder } 3$$

$$\begin{array}{r} 50 \\ 7 \overline{) 353} \\ \underline{350} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$353 \div 11 = 32 \text{ remainder } 1$$

$$\begin{array}{r} 32 \\ 11 \overline{) 353} \\ \underline{352} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$353 \div 13 = 27 \text{ remainder } 2$$

$$\begin{array}{r} 27 \\ 13 \overline{) 353} \\ \underline{351} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$353 \div 17 = 20 \text{ remainder } 13$$

$$\begin{array}{r} 20 \\ 17 \overline{) 353} \\ \underline{340} \\ 13 \end{array} \leftarrow \text{remainder}$$

P₇₂ 359

$$359 \div 2 = 179 \text{ remainder } 1$$

$$\begin{array}{r} 179 \\ 2 \overline{) 359} \\ \underline{358} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$359 \div 3 = 119 \text{ remainder } 2$$

$$\begin{array}{r} 119 \\ 3 \overline{) 359} \\ \underline{357} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$359 \div 5 = 71 \text{ remainder } 4$$

$$\begin{array}{r} 71 \\ 5 \overline{) 359} \\ \underline{355} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$359 \div 7 = 51 \text{ remainder } 2$$

$$\begin{array}{r} 51 \\ 7 \overline{) 359} \\ \underline{357} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$359 \div 11 = 32 \text{ remainder } 7$$

$$\begin{array}{r} 32 \\ 11 \overline{) 359} \\ \underline{352} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$359 \div 13 = 27 \text{ remainder } 8$$

$$\begin{array}{r} 27 \\ 13 \overline{) 359} \\ \underline{351} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$359 \div 17 = 21 \text{ remainder } 2$$

$$\begin{array}{r} 21 \\ 17 \overline{) 359} \\ \underline{357} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₇₃ 367

$$367 \div 2 = 183 \text{ remainder } 1$$

$$\begin{array}{r} 183 \\ 2 \overline{) 367} \\ \underline{366} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$367 \div 3 = 122 \text{ remainder } 1$$

$$\begin{array}{r} 122 \\ 3 \overline{) 367} \\ \underline{366} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$367 \div 5 = 73 \text{ remainder } 2$$

$$\begin{array}{r} 73 \\ 5 \overline{) 367} \\ \underline{365} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$367 \div 7 = 52 \text{ remainder } 3$$

$$\begin{array}{r} 52 \\ 7 \overline{) 367} \\ \underline{364} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$367 \div 11 = 33 \text{ remainder } 4$$

$$\begin{array}{r} 33 \\ 11 \overline{) 367} \\ \underline{363} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$367 \div 13 = 28 \text{ remainder } 3$$

$$\begin{array}{r} 28 \\ 13 \overline{) 367} \\ \underline{364} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$367 \div 17 = 21 \text{ remainder } 10$$

$$\begin{array}{r} 21 \\ 17 \overline{) 367} \\ \underline{357} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$367 \div 19 = 19 \text{ remainder } 6$$

$$\begin{array}{r} 19 \\ 19 \overline{) 367} \\ \underline{361} \\ 6 \end{array} \leftarrow \text{remainder}$$

P₇₄ 373

$$373 \div 2 = 186 \text{ remainder } 1$$

$$\begin{array}{r} 186 \\ 2 \overline{) 373} \\ \underline{372} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$373 \div 3 = 124 \text{ remainder } 1$$

$$\begin{array}{r} 124 \\ 3 \overline{) 373} \\ \underline{372} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$373 \div 5 = 74 \text{ remainder } 3$$

$$\begin{array}{r} 74 \\ 5 \overline{) 373} \\ \underline{370} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$373 \div 7 = 53 \text{ remainder } 2$$

$$\begin{array}{r} 53 \\ 7 \overline{) 373} \\ \underline{371} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$373 \div 11 = 33 \text{ remainder } 10$$

$$\begin{array}{r} 33 \\ 11 \overline{) 373} \\ \underline{363} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$373 \div 13 = 28 \text{ remainder } 9$$

$$\begin{array}{r} 28 \\ 13 \overline{) 373} \\ \underline{364} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$373 \div 17 = 21 \text{ remainder } 16$$

$$\begin{array}{r} 21 \\ 17 \overline{) 373} \\ \underline{357} \\ 16 \end{array} \leftarrow \text{remainder}$$

$$373 \div 19 = 19 \text{ remainder } 12$$

$$\begin{array}{r} 19 \\ 19 \overline{) 373} \\ \underline{361} \\ 12 \end{array} \leftarrow \text{remainder}$$

P₇₅ 379

$$379 \div 2 = 189 \text{ remainder } 1$$

$$\begin{array}{r} 189 \\ 2 \overline{) 379} \\ \underline{378} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$379 \div 3 = 126 \text{ remainder } 1$$

$$\begin{array}{r} 126 \\ 3 \overline{) 379} \\ \underline{378} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$379 \div 5 = 75 \text{ remainder } 4$$

$$\begin{array}{r} 75 \\ 5 \overline{) 379} \\ \underline{375} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$379 \div 7 = 54 \text{ remainder } 1$$

$$\begin{array}{r} 54 \\ 7 \overline{) 379} \\ \underline{378} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$379 \div 11 = 34 \text{ remainder } 5$$

$$\begin{array}{r} 34 \\ 11 \overline{) 379} \\ \underline{374} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$379 \div 13 = 29 \text{ remainder } 2$$

$$\begin{array}{r} 29 \\ 13 \overline{) 379} \\ \underline{377} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$379 \div 17 = 22 \text{ remainder } 5$$

$$\begin{array}{r} 22 \\ 17 \overline{) 379} \\ \underline{374} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$379 \div 19 = 19 \text{ remainder } 18$$

$$\begin{array}{r} 19 \\ 19 \overline{) 379} \\ \underline{361} \\ 18 \end{array} \leftarrow \text{remainder}$$

P₇₆ 383

$$383 \div 2 = 191 \text{ remainder } 1$$

$$\begin{array}{r} 191 \\ 2 \overline{) 383} \\ \underline{382} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$383 \div 3 = 127 \text{ remainder } 2$$

$$\begin{array}{r} 127 \\ 3 \overline{) 383} \\ \underline{381} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$383 \div 5 = 76 \text{ remainder } 3$$

$$\begin{array}{r} 76 \\ 5 \overline{) 383} \\ \underline{380} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$383 \div 7 = 54 \text{ remainder } 5$$

$$\begin{array}{r} 54 \\ 7 \overline{) 383} \\ \underline{378} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$383 \div 11 = 34 \text{ remainder } 9$$

$$\begin{array}{r} 34 \\ 11 \overline{) 383} \\ \underline{374} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$383 \div 13 = 29 \text{ remainder } 6$$

$$\begin{array}{r} 29 \\ 13 \overline{) 383} \\ \underline{377} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$383 \div 17 = 22 \text{ remainder } 9$$

$$\begin{array}{r} 22 \\ 17 \overline{) 383} \\ \underline{374} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$383 \div 19 = 20 \text{ remainder } 3$$

$$\begin{array}{r} 20 \\ 19 \overline{) 383} \\ \underline{380} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₇₇ 389

$$389 \div 2 = 194 \text{ remainder } 1$$

$$\begin{array}{r} 194 \\ 2 \overline{) 389} \\ \underline{388} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$389 \div 3 = 129 \text{ remainder } 2$$

$$\begin{array}{r} 129 \\ 3 \overline{) 389} \\ \underline{387} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$389 \div 5 = 77 \text{ remainder } 4$$

$$\begin{array}{r} 77 \\ 5 \overline{) 389} \\ \underline{385} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$389 \div 7 = 55 \text{ remainder } 4$$

$$\begin{array}{r} 55 \\ 7 \overline{) 389} \\ \underline{385} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$389 \div 11 = 35 \text{ remainder } 4$$

$$\begin{array}{r} 35 \\ 11 \overline{) 389} \\ \underline{385} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$389 \div 13 = 29 \text{ remainder } 12$$

$$\begin{array}{r} 29 \\ 13 \overline{) 389} \\ \underline{377} \\ 12 \end{array} \leftarrow \text{remainder}$$

$$389 \div 17 = 22 \text{ remainder } 15$$

$$\begin{array}{r} 22 \\ 17 \overline{) 389} \\ \underline{374} \\ 15 \end{array} \leftarrow \text{remainder}$$

$$389 \div 19 = 20 \text{ remainder } 9$$

$$\begin{array}{r} 20 \\ 19 \overline{) 389} \\ \underline{380} \\ 9 \end{array} \leftarrow \text{remainder}$$

P₇₈ 397

$$397 \div 2 = 198 \text{ remainder } 1$$

$$\begin{array}{r} 198 \\ 2 \overline{) 397} \\ \underline{396} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$397 \div 3 = 132 \text{ remainder } 1$$

$$\begin{array}{r} 132 \\ 3 \overline{) 397} \\ \underline{396} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$397 \div 5 = 79 \text{ remainder } 2$$

$$\begin{array}{r} 79 \\ 5 \overline{) 397} \\ \underline{395} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$397 \div 7 = 56 \text{ remainder } 5$$

$$\begin{array}{r} 56 \\ 7 \overline{) 397} \\ \underline{392} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$397 \div 11 = 36 \text{ remainder } 1$$

$$\begin{array}{r} 36 \\ 11 \overline{) 397} \\ \underline{396} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$397 \div 13 = 30 \text{ remainder } 7$$

$$\begin{array}{r} 30 \\ 13 \overline{) 397} \\ \underline{390} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$397 \div 17 = 23 \text{ remainder } 6$$

$$\begin{array}{r} 23 \\ 17 \overline{) 397} \\ \underline{391} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$397 \div 19 = 20 \text{ remainder } 17$$

$$\begin{array}{r} 20 \\ 19 \overline{) 397} \\ \underline{380} \\ 17 \end{array} \leftarrow \text{remainder}$$

P₇₉ 401

$$401 \div 2 = 200 \text{ remainder } 1$$

$$\begin{array}{r} 200 \\ 2 \overline{) 401} \\ \underline{400} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$401 \div 3 = 133 \text{ remainder } 2$$

$$\begin{array}{r} 133 \\ 3 \overline{) 401} \\ \underline{399} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$401 \div 5 = 80 \text{ remainder } 1$$

$$\begin{array}{r} 80 \\ 5 \overline{) 401} \\ \underline{400} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$401 \div 7 = 57 \text{ remainder } 2$$

$$\begin{array}{r} 57 \\ 7 \overline{) 401} \\ \underline{399} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$401 \div 11 = 36 \text{ remainder } 5$$

$$\begin{array}{r} 36 \\ 11 \overline{) 401} \\ \underline{396} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$401 \div 13 = 30 \text{ remainder } 11$$

$$\begin{array}{r} 30 \\ 13 \overline{) 401} \\ \underline{390} \\ 11 \end{array} \leftarrow \text{remainder}$$

$$401 \div 17 = 23 \text{ remainder } 10$$

$$\begin{array}{r} 23 \\ 17 \overline{) 401} \\ \underline{391} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$401 \div 19 = 21 \text{ remainder } 2$$

$$\begin{array}{r} 21 \\ 19 \overline{) 401} \\ \underline{399} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₈₀ 409

$$409 \div 2 = 204 \text{ remainder } 1$$

$$\begin{array}{r} 204 \\ 2 \overline{) 409} \\ \underline{408} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$409 \div 3 = 136 \text{ remainder } 1$$

$$\begin{array}{r} 136 \\ 3 \overline{) 409} \\ \underline{408} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$409 \div 5 = 81 \text{ remainder } 4$$

$$\begin{array}{r} 81 \\ 5 \overline{) 409} \\ \underline{405} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$409 \div 7 = 58 \text{ remainder } 3$$

$$\begin{array}{r} 58 \\ 7 \overline{) 409} \\ \underline{406} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$409 \div 11 = 37 \text{ remainder } 2$$

$$\begin{array}{r} 37 \\ 11 \overline{) 409} \\ \underline{407} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$409 \div 13 = 31 \text{ remainder } 6$$

$$\begin{array}{r} 31 \\ 13 \overline{) 409} \\ \underline{403} \\ 6 \leftarrow \text{remainder} \end{array}$$

$$409 \div 17 = 24 \text{ remainder } 1$$

$$\begin{array}{r} 24 \\ 17 \overline{) 409} \\ \underline{408} \\ 1 \leftarrow \text{remainder} \end{array}$$

$$409 \div 19 = 21 \text{ remainder } 10$$

$$\begin{array}{r} 21 \\ 19 \overline{) 409} \\ \underline{399} \\ 10 \leftarrow \text{remainder} \end{array}$$

P₈₁ 419

$$419 \div 2 = 209 \text{ remainder } 1$$

$$\begin{array}{r} 209 \\ 2 \overline{) 419} \\ \underline{418} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$419 \div 3 = 139 \text{ remainder } 2$$

$$\begin{array}{r} 139 \\ 3 \overline{) 419} \\ \underline{417} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$419 \div 5 = 83 \text{ remainder } 4$$

$$\begin{array}{r} 83 \\ 5 \overline{) 419} \\ \underline{415} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$419 \div 7 = 59 \text{ remainder } 6$$

$$\begin{array}{r} 59 \\ 7 \overline{) 419} \\ \underline{413} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$419 \div 11 = 38 \text{ remainder } 1$$

$$\begin{array}{r} 38 \\ 11 \overline{) 419} \\ \underline{418} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$419 \div 13 = 32 \text{ remainder } 3$$

$$\begin{array}{r} 32 \\ 13 \overline{) 419} \\ \underline{416} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$419 \div 17 = 24 \text{ remainder } 11$$

$$\begin{array}{r} 24 \\ 17 \overline{) 419} \\ \underline{408} \\ 11 \end{array} \leftarrow \text{remainder}$$

$$419 \div 19 = 22 \text{ remainder } 1$$

$$\begin{array}{r} 22 \\ 19 \overline{) 419} \\ \underline{418} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₈₂ 421

$$421 \div 2 = 210 \text{ remainder } 1$$

$$\begin{array}{r} 210 \\ 2 \overline{) 421} \\ \underline{420} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$421 \div 3 = 140 \text{ remainder } 1$$

$$\begin{array}{r} 140 \\ 3 \overline{) 421} \\ \underline{420} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$421 \div 5 = 84 \text{ remainder } 1$$

$$\begin{array}{r} 84 \\ 5 \overline{) 421} \\ \underline{420} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$421 \div 7 = 60 \text{ remainder } 1$$

$$\begin{array}{r} 60 \\ 7 \overline{) 421} \\ \underline{420} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$421 \div 11 = 38 \text{ remainder } 3$$

$$\begin{array}{r} 38 \\ 11 \overline{) 421} \\ \underline{418} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$421 \div 13 = 32 \text{ remainder } 5$$

$$\begin{array}{r} 32 \\ 13 \overline{) 421} \\ \underline{416} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$421 \div 17 = 24 \text{ remainder } 13$$

$$\begin{array}{r} 24 \\ 17 \overline{) 421} \\ \underline{408} \\ 13 \end{array} \leftarrow \text{remainder}$$

$$421 \div 19 = 22 \text{ remainder } 3$$

$$\begin{array}{r} 22 \\ 19 \overline{) 421} \\ \underline{418} \\ 3 \end{array} \leftarrow \text{remainder}$$

P₈₃ 431

$$431 \div 2 = 215 \text{ remainder } 1$$

$$\begin{array}{r} 215 \\ 2 \overline{) 431} \\ \underline{430} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$431 \div 3 = 143 \text{ remainder } 2$$

$$\begin{array}{r} 143 \\ 3 \overline{) 431} \\ \underline{429} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$431 \div 5 = 86 \text{ remainder } 1$$

$$\begin{array}{r} 86 \\ 5 \overline{) 431} \\ \underline{430} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$431 \div 7 = 61 \text{ remainder } 4$$

$$\begin{array}{r} 61 \\ 7 \overline{) 431} \\ \underline{427} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$431 \div 11 = 39 \text{ remainder } 2$$

$$\begin{array}{r} 39 \\ 11 \overline{) 431} \\ \underline{429} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$431 \div 13 = 33 \text{ remainder } 2$$

$$\begin{array}{r} 33 \\ 13 \overline{) 431} \\ \underline{429} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$431 \div 17 = 25 \text{ remainder } 6$$

$$\begin{array}{r} 25 \\ 17 \overline{) 431} \\ \underline{425} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$431 \div 19 = 22 \text{ remainder } 13$$

$$\begin{array}{r} 22 \\ 19 \overline{) 431} \\ \underline{418} \\ 13 \end{array} \leftarrow \text{remainder}$$

P₈₄ 433

$$433 \div 2 = 216 \text{ remainder } 1$$

$$\begin{array}{r} 216 \\ 2 \overline{) 433} \\ \underline{432} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$433 \div 3 = 144 \text{ remainder } 1$$

$$\begin{array}{r} 144 \\ 3 \overline{) 433} \\ \underline{432} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$433 \div 5 = 86 \text{ remainder } 3$$

$$\begin{array}{r} 86 \\ 5 \overline{) 433} \\ \underline{430} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$433 \div 7 = 61 \text{ remainder } 6$$

$$\begin{array}{r} 61 \\ 7 \overline{) 433} \\ \underline{427} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$433 \div 11 = 39 \text{ remainder } 4$$

$$\begin{array}{r} 39 \\ 11 \overline{) 433} \\ \underline{429} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$433 \div 13 = 33 \text{ remainder } 4$$

$$\begin{array}{r} 33 \\ 13 \overline{) 433} \\ \underline{429} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$433 \div 17 = 25 \text{ remainder } 8$$

$$\begin{array}{r} 25 \\ 17 \overline{) 433} \\ \underline{425} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$433 \div 19 = 22 \text{ remainder } 15$$

$$\begin{array}{r} 22 \\ 19 \overline{) 433} \\ \underline{418} \\ 15 \end{array} \leftarrow \text{remainder}$$

P₈₅ 439

$$439 \div 2 = 219 \text{ remainder } 1$$

$$\begin{array}{r} 219 \\ 2 \overline{) 439} \\ \underline{438} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$439 \div 3 = 146 \text{ remainder } 1$$

$$\begin{array}{r} 146 \\ 3 \overline{) 439} \\ \underline{438} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$439 \div 5 = 87 \text{ remainder } 4$$

$$\begin{array}{r} 87 \\ 5 \overline{) 439} \\ \underline{435} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$439 \div 7 = 62 \text{ remainder } 5$$

$$\begin{array}{r} 62 \\ 7 \overline{) 439} \\ \underline{434} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$439 \div 11 = 39 \text{ remainder } 10$$

$$\begin{array}{r} 39 \\ 11 \overline{) 439} \\ \underline{429} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$439 \div 13 = 33 \text{ remainder } 10$$

$$\begin{array}{r} 33 \\ 13 \overline{) 439} \\ \underline{429} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$439 \div 17 = 25 \text{ remainder } 14$$

$$\begin{array}{r} 25 \\ 17 \overline{) 439} \\ \underline{425} \\ 14 \end{array} \leftarrow \text{remainder}$$

$$439 \div 19 = 23 \text{ remainder } 2$$

$$\begin{array}{r} 23 \\ 19 \overline{) 439} \\ \underline{437} \\ 2 \end{array} \leftarrow \text{remainder}$$

P₈₆ 443

$$443 \div 2 = 221 \text{ remainder } 1$$

$$\begin{array}{r} 221 \\ 2 \overline{) 443} \\ \underline{442} \\ 1 \leftarrow \text{remainder} \end{array}$$

$$443 \div 3 = 147 \text{ remainder } 2$$

$$\begin{array}{r} 147 \\ 3 \overline{) 443} \\ \underline{441} \\ 2 \leftarrow \text{remainder} \end{array}$$

$$443 \div 5 = 88 \text{ remainder } 3$$

$$\begin{array}{r} 88 \\ 5 \overline{) 443} \\ \underline{440} \\ 3 \leftarrow \text{remainder} \end{array}$$

$$443 \div 7 = 63 \text{ remainder } 2$$

$$\begin{array}{r} 63 \\ 7 \overline{) 443} \\ \underline{441} \\ 2 \leftarrow \text{remainder} \end{array}$$

$$443 \div 11 = 40 \text{ remainder } 3$$

$$\begin{array}{r} 40 \\ 11 \overline{) 443} \\ \underline{440} \\ 3 \leftarrow \text{remainder} \end{array}$$

$$443 \div 13 = 34 \text{ remainder } 1$$

$$\begin{array}{r} 34 \\ 13 \overline{) 443} \\ \underline{442} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$443 \div 17 = 26 \text{ remainder } 1$$

$$\begin{array}{r} 26 \\ 17 \overline{) 443} \\ \underline{442} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$443 \div 19 = 23 \text{ remainder } 6$$

$$\begin{array}{r} 23 \\ 19 \overline{) 443} \\ \underline{437} \\ 6 \end{array} \leftarrow \text{remainder}$$

P₈₇ 449

$$449 \div 2 = 224 \text{ remainder } 1$$

$$\begin{array}{r} 224 \\ 2 \overline{) 449} \\ \underline{448} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$449 \div 3 = 149 \text{ remainder } 2$$

$$\begin{array}{r} 149 \\ 3 \overline{) 449} \\ \underline{447} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$449 \div 5 = 89 \text{ remainder } 4$$

$$\begin{array}{r} 89 \\ 5 \overline{) 449} \\ \underline{445} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$449 \div 7 = 64 \text{ remainder } 1$$

$$\begin{array}{r} 64 \\ 7 \overline{) 449} \\ \underline{448} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$449 \div 11 = 40 \text{ remainder } 9$$

$$\begin{array}{r} 40 \\ 11 \overline{) 449} \\ \underline{440} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$449 \div 13 = 34 \text{ remainder } 7$$

$$\begin{array}{r} 34 \\ 13 \overline{) 449} \\ \underline{442} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$449 \div 17 = 26 \text{ remainder } 7$$

$$\begin{array}{r} 26 \\ 17 \overline{) 449} \\ \underline{442} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$449 \div 19 = 23 \text{ remainder } 12$$

$$\begin{array}{r} 23 \\ 19 \overline{) 449} \\ \underline{437} \\ 12 \end{array} \leftarrow \text{remainder}$$

P₈₈ 457

$$457 \div 2 = 228 \text{ remainder } 1$$

$$\begin{array}{r} 228 \\ 2 \overline{) 457} \\ \underline{456} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$457 \div 3 = 152 \text{ remainder } 1$$

$$\begin{array}{r} 152 \\ 3 \overline{) 457} \\ \underline{456} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$457 \div 5 = 91 \text{ remainder } 2$$

$$\begin{array}{r} 91 \\ 5 \overline{) 457} \\ \underline{455} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$457 \div 7 = 65 \text{ remainder } 2$$

$$\begin{array}{r} 65 \\ 7 \overline{) 457} \\ \underline{455} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$457 \div 11 = 41 \text{ remainder } 6$$

$$\begin{array}{r} 41 \\ 11 \overline{) 457} \\ \underline{451} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$457 \div 13 = 35 \text{ remainder } 2$$

$$\begin{array}{r} 35 \\ 13 \overline{) 457} \\ \underline{455} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$457 \div 17 = 26 \text{ remainder } 15$$

$$\begin{array}{r} 26 \\ 17 \overline{) 457} \\ \underline{442} \\ 15 \end{array} \leftarrow \text{remainder}$$

$$457 \div 19 = 24 \text{ remainder } 1$$

$$\begin{array}{r} 24 \\ 19 \overline{) 457} \\ \underline{456} \\ 1 \end{array} \leftarrow \text{remainder}$$

P₈₉ 461

$$461 \div 2 = 230 \text{ remainder } 1$$

$$\begin{array}{r} 230 \\ 2 \overline{) 461} \\ \underline{460} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$461 \div 3 = 153 \text{ remainder } 2$$

$$\begin{array}{r} 153 \\ 3 \overline{) 461} \\ \underline{459} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$461 \div 5 = 92 \text{ remainder } 1$$

$$\begin{array}{r} 92 \\ 5 \overline{) 461} \\ \underline{460} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$461 \div 7 = 65 \text{ remainder } 6$$

$$\begin{array}{r} 65 \\ 7 \overline{) 461} \\ \underline{455} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$461 \div 11 = 41 \text{ remainder } 10$$

$$\begin{array}{r} 41 \\ 11 \overline{) 461} \\ \underline{451} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$461 \div 13 = 35 \text{ remainder } 6$$

$$\begin{array}{r} 35 \\ 13 \overline{) 461} \\ \underline{455} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$461 \div 17 = 27 \text{ remainder } 2$$

$$\begin{array}{r} 27 \\ 17 \overline{) 461} \\ \underline{459} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$461 \div 19 = 24 \text{ remainder } 5$$

$$\begin{array}{r} 24 \\ 19 \overline{) 461} \\ \underline{456} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₉₀ 463

$$463 \div 2 = 231 \text{ remainder } 1$$

$$\begin{array}{r} 231 \\ 2 \overline{) 463} \\ \underline{462} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$463 \div 3 = 154 \text{ remainder } 1$$

$$\begin{array}{r} 154 \\ 3 \overline{) 463} \\ \underline{462} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$463 \div 5 = 92 \text{ remainder } 3$$

$$\begin{array}{r} 92 \\ 5 \overline{) 463} \\ \underline{460} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$463 \div 7 = 66 \text{ remainder } 1$$

$$\begin{array}{r} 66 \\ 7 \overline{) 463} \\ \underline{462} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$463 \div 11 = 42 \text{ remainder } 1$$

$$\begin{array}{r} 42 \\ 11 \overline{) 463} \\ \underline{462} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$463 \div 13 = 35 \text{ remainder } 8$$

$$\begin{array}{r} 35 \\ 13 \overline{) 463} \\ \underline{455} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$463 \div 17 = 27 \text{ remainder } 4$$

$$\begin{array}{r} 27 \\ 17 \overline{) 463} \\ \underline{459} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$463 \div 19 = 24 \text{ remainder } 7$$

$$\begin{array}{r} 24 \\ 19 \overline{) 463} \\ \underline{456} \\ 7 \end{array} \leftarrow \text{remainder}$$

P₉₁ 467

$$467 \div 2 = 233 \text{ remainder } 1$$

$$\begin{array}{r} 233 \\ 2 \overline{) 467} \\ \underline{466} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$467 \div 3 = 155 \text{ remainder } 2$$

$$\begin{array}{r} 155 \\ 3 \overline{) 467} \\ \underline{465} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$467 \div 5 = 93 \text{ remainder } 2$$

$$\begin{array}{r} 93 \\ 5 \overline{) 467} \\ \underline{465} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$467 \div 7 = 66 \text{ remainder } 5$$

$$\begin{array}{r} 66 \\ 7 \overline{) 467} \\ \underline{462} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$467 \div 11 = 42 \text{ remainder } 5$$

$$\begin{array}{r} 42 \\ 11 \overline{) 467} \\ \underline{462} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$467 \div 13 = 35 \text{ remainder } 12$$

$$\begin{array}{r} 35 \\ 13 \overline{) 467} \\ \underline{455} \\ 12 \end{array} \leftarrow \text{remainder}$$

$$467 \div 17 = 27 \text{ remainder } 8$$

$$\begin{array}{r} 27 \\ 17 \overline{) 467} \\ \underline{459} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$467 \div 19 = 24 \text{ remainder } 11$$

$$\begin{array}{r} 24 \\ 19 \overline{) 467} \\ \underline{456} \\ 11 \end{array} \leftarrow \text{remainder}$$

P₉₂ 479

$$479 \div 2 = 239 \text{ remainder } 1$$

$$\begin{array}{r} 239 \\ 2 \overline{) 479} \\ \underline{478} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$479 \div 3 = 159 \text{ remainder } 2$$

$$\begin{array}{r} 159 \\ 3 \overline{) 479} \\ \underline{477} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$479 \div 5 = 95 \text{ remainder } 4$$

$$\begin{array}{r} 95 \\ 5 \overline{) 479} \\ \underline{475} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$479 \div 7 = 68 \text{ remainder } 3$$

$$\begin{array}{r} 68 \\ 7 \overline{) 479} \\ \underline{476} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$479 \div 11 = 43 \text{ remainder } 6$$

$$\begin{array}{r} 43 \\ 11 \overline{) 479} \\ \underline{473} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$479 \div 13 = 36 \text{ remainder } 11$$

$$\begin{array}{r} 36 \\ 13 \overline{) 479} \\ \underline{468} \\ 11 \end{array} \leftarrow \text{remainder}$$

$$479 \div 17 = 28 \text{ remainder } 3$$

$$\begin{array}{r} 28 \\ 17 \overline{) 479} \\ \underline{476} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$479 \div 19 = 25 \text{ remainder } 4$$

$$\begin{array}{r} 25 \\ 19 \overline{) 479} \\ \underline{475} \\ 4 \end{array} \leftarrow \text{remainder}$$

P₉₃ 487

$$487 \div 2 = 243 \text{ remainder } 1$$

$$\begin{array}{r} 243 \\ 2 \overline{) 487} \\ \underline{486} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$487 \div 3 = 162 \text{ remainder } 1$$

$$\begin{array}{r} 162 \\ 3 \overline{) 487} \\ \underline{486} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$487 \div 5 = 97 \text{ remainder } 2$$

$$\begin{array}{r} 97 \\ 5 \overline{) 487} \\ \underline{485} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$487 \div 7 = 69 \text{ remainder } 4$$

$$\begin{array}{r} 69 \\ 7 \overline{) 487} \\ \underline{483} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$487 \div 11 = 44 \text{ remainder } 3$$

$$\begin{array}{r} 44 \\ 11 \overline{) 487} \\ \underline{484} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$487 \div 13 = 37 \text{ remainder } 6$$

$$\begin{array}{r} 37 \\ 13 \overline{) 487} \\ \underline{481} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$487 \div 17 = 28 \text{ remainder } 11$$

$$\begin{array}{r} 28 \\ 17 \overline{) 487} \\ \underline{476} \\ 11 \end{array} \leftarrow \text{remainder}$$

$$487 \div 19 = 25 \text{ remainder } 12$$

$$\begin{array}{r} 25 \\ 19 \overline{) 487} \\ \underline{475} \\ 12 \end{array} \leftarrow \text{remainder}$$

P₉₄ 491

$$491 \div 2 = 245 \text{ remainder } 1$$

$$\begin{array}{r} 245 \\ 2 \overline{) 491} \\ \underline{490} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$491 \div 3 = 163 \text{ remainder } 2$$

$$\begin{array}{r} 163 \\ 3 \overline{) 491} \\ \underline{489} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$491 \div 5 = 98 \text{ remainder } 1$$

$$\begin{array}{r} 98 \\ 5 \overline{) 491} \\ \underline{490} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$491 \div 7 = 70 \text{ remainder } 1$$

$$\begin{array}{r} 70 \\ 7 \overline{) 491} \\ \underline{490} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$491 \div 11 = 44 \text{ remainder } 7$$

$$\begin{array}{r} 44 \\ 11 \overline{) 491} \\ \underline{484} \\ 7 \end{array} \leftarrow \text{remainder}$$

$$491 \div 13 = 37 \text{ remainder } 10$$

$$\begin{array}{r} 37 \\ 13 \overline{) 491} \\ \underline{481} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$491 \div 17 = 28 \text{ remainder } 15$$

$$\begin{array}{r} 28 \\ 17 \overline{) 491} \\ \underline{476} \\ 15 \end{array} \leftarrow \text{remainder}$$

$$491 \div 19 = 25 \text{ remainder } 16$$

$$\begin{array}{r} 25 \\ 19 \overline{) 491} \\ \underline{475} \\ 16 \end{array} \leftarrow \text{remainder}$$

P₉₅ 499

$$499 \div 2 = 249 \text{ remainder } 1$$

$$\begin{array}{r} 249 \\ 2 \overline{) 499} \\ \underline{498} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$499 \div 3 = 166 \text{ remainder } 1$$

$$\begin{array}{r} 166 \\ 3 \overline{) 499} \\ \underline{498} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$499 \div 5 = 99 \text{ remainder } 4$$

$$\begin{array}{r} 99 \\ 5 \overline{) 499} \\ \underline{495} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$499 \div 7 = 71 \text{ remainder } 2$$

$$\begin{array}{r} 71 \\ 7 \overline{) 499} \\ \underline{497} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$499 \div 11 = 45 \text{ remainder } 4$$

$$\begin{array}{r} 45 \\ 11 \overline{) 499} \\ \underline{495} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$499 \div 13 = 38 \text{ remainder } 5$$

$$\begin{array}{r} 38 \\ 13 \overline{) 499} \\ \underline{494} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$499 \div 17 = 29 \text{ remainder } 6$$

$$\begin{array}{r} 29 \\ 17 \overline{) 499} \\ \underline{493} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$499 \div 19 = 26 \text{ remainder } 5$$

$$\begin{array}{r} 26 \\ 19 \overline{) 499} \\ \underline{494} \\ 5 \end{array} \leftarrow \text{remainder}$$

P₉₆ 503

$$503 \div 2 = 251 \text{ remainder } 1$$

$$\begin{array}{r} 251 \\ 2 \overline{) 503} \\ \underline{502} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$503 \div 3 = 167 \text{ remainder } 2$$

$$\begin{array}{r} 167 \\ 3 \overline{) 503} \\ \underline{501} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$503 \div 5 = 100 \text{ remainder } 3$$

$$\begin{array}{r} 100 \\ 5 \overline{) 503} \\ \underline{500} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$503 \div 7 = 71 \text{ remainder } 6$$

$$\begin{array}{r} 71 \\ 7 \overline{) 503} \\ \underline{497} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$503 \div 11 = 45 \text{ remainder } 8$$

$$\begin{array}{r} 45 \\ 11 \overline{) 503} \\ \underline{495} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$503 \div 13 = 38 \text{ remainder } 9$$

$$\begin{array}{r} 38 \\ 13 \overline{) 503} \\ \underline{494} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$503 \div 17 = 29 \text{ remainder } 10$$

$$\begin{array}{r} 29 \\ 17 \overline{) 503} \\ \underline{493} \\ 10 \end{array} \leftarrow \text{remainder}$$

$$503 \div 19 = 26 \text{ remainder } 9$$

$$\begin{array}{r} 26 \\ 19 \overline{) 503} \\ \underline{494} \\ 9 \end{array} \leftarrow \text{remainder}$$

P₉₇ 509

$$509 \div 2 = 254 \text{ remainder } 1$$

$$\begin{array}{r} 254 \\ 2 \overline{) 509} \\ \underline{508} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$509 \div 3 = 169 \text{ remainder } 2$$

$$\begin{array}{r} 169 \\ 3 \overline{) 509} \\ \underline{507} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$509 \div 5 = 101 \text{ remainder } 4$$

$$\begin{array}{r} 101 \\ 5 \overline{) 509} \\ \underline{505} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$509 \div 7 = 72 \text{ remainder } 5$$

$$\begin{array}{r} 72 \\ 7 \overline{) 509} \\ \underline{504} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$509 \div 11 = 46 \text{ remainder } 3$$

$$\begin{array}{r} 46 \\ 11 \overline{) 509} \\ \underline{506} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$509 \div 13 = 39 \text{ remainder } 2$$

$$\begin{array}{r} 39 \\ 13 \overline{) 509} \\ \underline{507} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$509 \div 17 = 29 \text{ remainder } 16$$

$$\begin{array}{r} 29 \\ 17 \overline{) 509} \\ \underline{493} \\ 16 \end{array} \leftarrow \text{remainder}$$

$$509 \div 19 = 26 \text{ remainder } 15$$

$$\begin{array}{r} 26 \\ 19 \overline{) 509} \\ \underline{494} \\ 15 \end{array} \leftarrow \text{remainder}$$

P₉₈ 521

$$521 \div 2 = 260 \text{ remainder } 1$$

$$\begin{array}{r} 260 \\ 2 \overline{) 521} \\ \underline{520} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$521 \div 3 = 173 \text{ remainder } 2$$

$$\begin{array}{r} 173 \\ 3 \overline{) 521} \\ \underline{519} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$521 \div 5 = 104 \text{ remainder } 1$$

$$\begin{array}{r} 104 \\ 5 \overline{) 521} \\ \underline{520} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$521 \div 7 = 74 \text{ remainder } 3$$

$$\begin{array}{r} 74 \\ 7 \overline{) 521} \\ \underline{518} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$521 \div 11 = 47 \text{ remainder } 4$$

$$\begin{array}{r} 47 \\ 11 \overline{) 521} \\ \underline{517} \\ 4 \end{array} \leftarrow \text{remainder}$$

$$521 \div 13 = 40 \text{ remainder } 1$$

$$\begin{array}{r} 40 \\ 13 \overline{) 521} \\ \underline{520} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$521 \div 17 = 30 \text{ remainder } 11$$

$$\begin{array}{r} 30 \\ 17 \overline{) 521} \\ \underline{510} \\ 11 \end{array} \leftarrow \text{remainder}$$

$$521 \div 19 = 27 \text{ remainder } 8$$

$$\begin{array}{r} 27 \\ 19 \overline{) 521} \\ \underline{513} \\ 8 \end{array} \leftarrow \text{remainder}$$

P₉₉ 523

$$523 \div 2 = 261 \text{ remainder } 1$$

$$\begin{array}{r} 261 \\ 2 \overline{) 523} \\ \underline{522} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$523 \div 3 = 174 \text{ remainder } 1$$

$$\begin{array}{r} 174 \\ 3 \overline{) 523} \\ \underline{522} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$523 \div 5 = 104 \text{ remainder } 3$$

$$\begin{array}{r} 104 \\ 5 \overline{) 523} \\ \underline{520} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$523 \div 7 = 74 \text{ remainder } 5$$

$$\begin{array}{r} 74 \\ 7 \overline{) 523} \\ \underline{518} \\ 5 \end{array} \leftarrow \text{remainder}$$

$$523 \div 11 = 47 \text{ remainder } 6$$

$$\begin{array}{r} 47 \\ 11 \overline{) 523} \\ \underline{517} \\ 6 \end{array} \leftarrow \text{remainder}$$

$$523 \div 13 = 40 \text{ remainder } 3$$

$$\begin{array}{r} 40 \\ 13 \overline{) 523} \\ \underline{520} \\ 3 \end{array} \leftarrow \text{remainder}$$

$$523 \div 17 = 30 \text{ remainder } 13$$

$$\begin{array}{r} 30 \\ 17 \overline{) 523} \\ \underline{510} \\ 13 \end{array} \leftarrow \text{remainder}$$

$$523 \div 19 = 27 \text{ remainder } 10$$

$$\begin{array}{r} 27 \\ 19 \overline{) 523} \\ \underline{513} \\ 10 \end{array} \leftarrow \text{remainder}$$

P₁₀₀ 541

$$541 \div 2 = 270 \text{ remainder } 1$$

$$\begin{array}{r} 270 \\ 2 \overline{) 541} \\ \underline{540} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$541 \div 3 = 180 \text{ remainder } 1$$

$$\begin{array}{r} 180 \\ 3 \overline{) 541} \\ \underline{540} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$541 \div 5 = 108 \text{ remainder } 1$$

$$\begin{array}{r} 108 \\ 5 \overline{) 541} \\ \underline{540} \\ 1 \end{array} \leftarrow \text{remainder}$$

$$541 \div 7 = 77 \text{ remainder } 2$$

$$\begin{array}{r} 77 \\ 7 \overline{) 541} \\ \underline{539} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$541 \div 11 = 49 \text{ remainder } 2$$

$$\begin{array}{r} 49 \\ 11 \overline{) 541} \\ \underline{539} \\ 2 \end{array} \leftarrow \text{remainder}$$

$$541 \div 13 = 41 \text{ remainder } 8$$

$$\begin{array}{r} 41 \\ 13 \overline{) 541} \\ \underline{533} \\ 8 \end{array} \leftarrow \text{remainder}$$

$$541 \div 17 = 31 \text{ remainder } 14$$

$$\begin{array}{r} 31 \\ 17 \overline{) 541} \\ \underline{527} \\ 14 \end{array} \leftarrow \text{remainder}$$

$$541 \div 19 = 28 \text{ remainder } 9$$

$$\begin{array}{r} 28 \\ 19 \overline{) 541} \\ \underline{532} \\ 9 \end{array} \leftarrow \text{remainder}$$

$$541 \div 23 = 23 \text{ remainder } 12$$

$$\begin{array}{r} 23 \\ 23 \overline{) 541} \\ \underline{529} \\ 12 \end{array} \leftarrow \text{remainder}$$

