

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

(1)

$$72 \overline{) 516647074}$$

(2)

$$50 \overline{) 268862779}$$

(3)

$$92 \overline{) 268142763}$$

(4)

$$28 \overline{) 471952191}$$

(5)

$$34 \overline{) 282363914}$$

(6)

$$41 \overline{) 259014869}$$

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<p>(1)</p> $ \begin{array}{r} 7175653 \text{ R}58 \\ 72 \overline{) 516647074} \\ \underline{- 504} \quad (7 \times 72) \\ 126 \\ \underline{- 72} \quad (1 \times 72) \\ 544 \\ \underline{- 504} \quad (7 \times 72) \\ 407 \\ \underline{- 360} \quad (5 \times 72) \\ 470 \\ \underline{- 432} \quad (6 \times 72) \\ 387 \\ \underline{- 360} \quad (5 \times 72) \\ 274 \\ \underline{- 216} \quad (3 \times 72) \\ \text{Remainder -->} \quad 58 \end{array} $	<p>(2)</p> $ \begin{array}{r} 5377255 \text{ R}29 \\ 50 \overline{) 268862779} \\ \underline{- 250} \quad (5 \times 50) \\ 188 \\ \underline{- 150} \quad (3 \times 50) \\ 386 \\ \underline{- 350} \quad (7 \times 50) \\ 362 \\ \underline{- 350} \quad (7 \times 50) \\ 127 \\ \underline{- 100} \quad (2 \times 50) \\ 277 \\ \underline{- 250} \quad (5 \times 50) \\ 279 \\ \underline{- 250} \quad (5 \times 50) \\ \text{Remainder -->} \quad 29 \end{array} $	<p>(3)</p> $ \begin{array}{r} 2914595 \text{ R}23 \\ 92 \overline{) 268142763} \\ \underline{- 184} \quad (2 \times 92) \\ 841 \\ \underline{- 828} \quad (9 \times 92) \\ 134 \\ \underline{- 92} \quad (1 \times 92) \\ 422 \\ \underline{- 368} \quad (4 \times 92) \\ 547 \\ \underline{- 460} \quad (5 \times 92) \\ 876 \\ \underline{- 828} \quad (9 \times 92) \\ 483 \\ \underline{- 460} \quad (5 \times 92) \\ \text{Remainder -->} \quad 23 \end{array} $
<p>(4)</p> $ \begin{array}{r} 16855435 \text{ R}11 \\ 28 \overline{) 471952191} \\ \underline{- 28} \quad (1 \times 28) \\ 191 \\ \underline{- 168} \quad (6 \times 28) \\ 239 \\ \underline{- 224} \quad (8 \times 28) \\ 155 \\ \underline{- 140} \quad (5 \times 28) \\ 152 \\ \underline{- 140} \quad (5 \times 28) \\ 121 \\ \underline{- 112} \quad (4 \times 28) \\ 99 \\ \underline{- 84} \quad (3 \times 28) \\ 151 \\ \underline{- 140} \quad (5 \times 28) \\ \text{Remainder -->} \quad 11 \end{array} $	<p>(5)</p> $ \begin{array}{r} 8304821 \text{ R}0 \\ 34 \overline{) 282363914} \\ \underline{- 272} \quad (8 \times 34) \\ 103 \\ \underline{- 102} \quad (3 \times 34) \\ 16 \\ \underline{- 0} \quad (0 \times 34) \\ 163 \\ \underline{- 136} \quad (4 \times 34) \\ 279 \\ \underline{- 272} \quad (8 \times 34) \\ 71 \\ \underline{- 68} \quad (2 \times 34) \\ 34 \\ \underline{- 34} \quad (1 \times 34) \\ \text{Remainder -->} \quad 0 \end{array} $	<p>(6)</p> $ \begin{array}{r} 6317435 \text{ R}34 \\ 41 \overline{) 259014869} \\ \underline{- 246} \quad (6 \times 41) \\ 130 \\ \underline{- 123} \quad (3 \times 41) \\ 71 \\ \underline{- 41} \quad (1 \times 41) \\ 304 \\ \underline{- 287} \quad (7 \times 41) \\ 178 \\ \underline{- 164} \quad (4 \times 41) \\ 146 \\ \underline{- 123} \quad (3 \times 41) \\ 239 \\ \underline{- 205} \quad (5 \times 41) \\ \text{Remainder -->} \quad 34 \end{array} $