

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

(1)

$$82 \overline{) 365427975}$$

(2)

$$16 \overline{) 887541047}$$

(3)

$$22 \overline{) 900187148}$$

(4)

$$10 \overline{) 658407724}$$

(5)

$$22 \overline{) 827043678}$$

(6)

$$78 \overline{) 125936032}$$

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}  4456438 \text{ R59} \\  82 \overline{) 365427975} \\  \underline{- 328} \quad (4 \times 82) \\  374 \\  \underline{- 328} \quad (4 \times 82) \\  462 \\  \underline{- 410} \quad (5 \times 82) \\  527 \\  \underline{- 492} \quad (6 \times 82) \\  359 \\  \underline{- 328} \quad (4 \times 82) \\  317 \\  \underline{- 246} \quad (3 \times 82) \\  715 \\  \underline{- 656} \quad (8 \times 82) \\  \text{Remainder -->} \quad 59  \end{array}  $	<p>(2)</p> $  \begin{array}{r}  55471315 \text{ R7} \\  16 \overline{) 887541047} \\  \underline{- 80} \quad (5 \times 16) \\  87 \\  \underline{- 80} \quad (5 \times 16) \\  75 \\  \underline{- 64} \quad (4 \times 16) \\  114 \\  \underline{- 112} \quad (7 \times 16) \\  21 \\  \underline{- 16} \quad (1 \times 16) \\  50 \\  \underline{- 48} \quad (3 \times 16) \\  24 \\  \underline{- 16} \quad (1 \times 16) \\  87 \\  \underline{- 80} \quad (5 \times 16) \\  \text{Remainder -->} \quad 7  \end{array}  $	<p>(3)</p> $  \begin{array}{r}  40917597 \text{ R14} \\  22 \overline{) 900187148} \\  \underline{- 88} \quad (4 \times 22) \\  20 \\  \underline{- 0} \quad (0 \times 22) \\  201 \\  \underline{- 198} \quad (9 \times 22) \\  38 \\  \underline{- 22} \quad (1 \times 22) \\  167 \\  \underline{- 154} \quad (7 \times 22) \\  131 \\  \underline{- 110} \quad (5 \times 22) \\  214 \\  \underline{- 198} \quad (9 \times 22) \\  168 \\  \underline{- 154} \quad (7 \times 22) \\  \text{Remainder -->} \quad 14  \end{array}  $
<p>(4)</p> $  \begin{array}{r}  65840772 \text{ R4} \\  10 \overline{) 658407724} \\  \underline{- 60} \quad (6 \times 10) \\  58 \\  \underline{- 50} \quad (5 \times 10) \\  84 \\  \underline{- 80} \quad (8 \times 10) \\  40 \\  \underline{- 40} \quad (4 \times 10) \\  07 \\  \underline{- 0} \quad (0 \times 10) \\  77 \\  \underline{- 70} \quad (7 \times 10) \\  72 \\  \underline{- 70} \quad (7 \times 10) \\  24 \\  \underline{- 20} \quad (2 \times 10) \\  \text{Remainder -->} \quad 4  \end{array}  $	<p>(5)</p> $  \begin{array}{r}  37592894 \text{ R10} \\  22 \overline{) 827043678} \\  \underline{- 66} \quad (3 \times 22) \\  167 \\  \underline{- 154} \quad (7 \times 22) \\  130 \\  \underline{- 110} \quad (5 \times 22) \\  204 \\  \underline{- 198} \quad (9 \times 22) \\  63 \\  \underline{- 44} \quad (2 \times 22) \\  196 \\  \underline{- 176} \quad (8 \times 22) \\  207 \\  \underline{- 198} \quad (9 \times 22) \\  98 \\  \underline{- 88} \quad (4 \times 22) \\  \text{Remainder -->} \quad 10  \end{array}  $	<p>(6)</p> $  \begin{array}{r}  1614564 \text{ R40} \\  78 \overline{) 125936032} \\  \underline{- 78} \quad (1 \times 78) \\  479 \\  \underline{- 468} \quad (6 \times 78) \\  113 \\  \underline{- 78} \quad (1 \times 78) \\  356 \\  \underline{- 312} \quad (4 \times 78) \\  440 \\  \underline{- 390} \quad (5 \times 78) \\  503 \\  \underline{- 468} \quad (6 \times 78) \\  352 \\  \underline{- 312} \quad (4 \times 78) \\  \text{Remainder -->} \quad 40  \end{array}  $