

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

(1)

$$5 \overline{)255768}$$

(2)

$$8 \overline{)660663}$$

(3)

$$2 \overline{)173675}$$

(4)

$$4 \overline{)620490}$$

(5)

$$4 \overline{)346150}$$

(6)

$$2 \overline{)503793}$$

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}  51153 \text{ R}3 \\  5 \overline{) 255768} \\  \underline{- 25} \qquad (5 \times 5) \\  05 \\  \underline{- 5} \qquad (1 \times 5) \\  07 \\  \underline{- 5} \qquad (1 \times 5) \\  26 \\  \underline{- 25} \qquad (5 \times 5) \\  18 \\  \underline{- 15} \qquad (3 \times 5) \\  \text{Remainder --> } 3  \end{array}  $	<p>(2)</p> $  \begin{array}{r}  82582 \text{ R}7 \\  8 \overline{) 660663} \\  \underline{- 64} \qquad (8 \times 8) \\  20 \\  \underline{- 16} \qquad (2 \times 8) \\  46 \\  \underline{- 40} \qquad (5 \times 8) \\  66 \\  \underline{- 64} \qquad (8 \times 8) \\  23 \\  \underline{- 16} \qquad (2 \times 8) \\  \text{Remainder --> } 7  \end{array}  $	<p>(3)</p> $  \begin{array}{r}  86837 \text{ R}1 \\  2 \overline{) 173675} \\  \underline{- 16} \qquad (8 \times 2) \\  13 \\  \underline{- 12} \qquad (6 \times 2) \\  16 \\  \underline{- 16} \qquad (8 \times 2) \\  07 \\  \underline{- 6} \qquad (3 \times 2) \\  15 \\  \underline{- 14} \qquad (7 \times 2) \\  \text{Remainder --> } 1  \end{array}  $
<p>(4)</p> $  \begin{array}{r}  155122 \text{ R}2 \\  4 \overline{) 620490} \\  \underline{- 4} \qquad (1 \times 4) \\  22 \\  \underline{- 20} \qquad (5 \times 4) \\  20 \\  \underline{- 20} \qquad (5 \times 4) \\  04 \\  \underline{- 4} \qquad (1 \times 4) \\  09 \\  \underline{- 8} \qquad (2 \times 4) \\  10 \\  \underline{- 8} \qquad (2 \times 4) \\  \text{Remainder --> } 2  \end{array}  $	<p>(5)</p> $  \begin{array}{r}  86537 \text{ R}2 \\  4 \overline{) 346150} \\  \underline{- 32} \qquad (8 \times 4) \\  26 \\  \underline{- 24} \qquad (6 \times 4) \\  21 \\  \underline{- 20} \qquad (5 \times 4) \\  15 \\  \underline{- 12} \qquad (3 \times 4) \\  30 \\  \underline{- 28} \qquad (7 \times 4) \\  \text{Remainder --> } 2  \end{array}  $	<p>(6)</p> $  \begin{array}{r}  251896 \text{ R}1 \\  2 \overline{) 503793} \\  \underline{- 4} \qquad (2 \times 2) \\  10 \\  \underline{- 10} \qquad (5 \times 2) \\  03 \\  \underline{- 2} \qquad (1 \times 2) \\  17 \\  \underline{- 16} \qquad (8 \times 2) \\  19 \\  \underline{- 18} \qquad (9 \times 2) \\  13 \\  \underline{- 12} \qquad (6 \times 2) \\  \text{Remainder --> } 1  \end{array}  $