

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

(1)

$$2 \overline{) 3633658}$$

(2)

$$5 \overline{) 4309521}$$

(3)

$$8 \overline{) 5782489}$$

(4)

$$6 \overline{) 1393113}$$

(5)

$$2 \overline{) 9642152}$$

(6)

$$7 \overline{) 2657719}$$

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}  1816829 \text{ R0} \\  2 \overline{) 3633658} \\  \underline{- 2} \phantom{000000} \quad (1 \times 2) \\  16 \phantom{000000} \\  \underline{- 16} \phantom{000000} \quad (8 \times 2) \\  03 \phantom{000000} \\  \underline{- 2} \phantom{000000} \quad (1 \times 2) \\  13 \phantom{000000} \\  \underline{- 12} \phantom{000000} \quad (6 \times 2) \\  16 \phantom{000000} \\  \underline{- 16} \phantom{000000} \quad (8 \times 2) \\  05 \phantom{000000} \\  \underline{- 4} \phantom{000000} \quad (2 \times 2) \\  18 \phantom{000000} \\  \underline{- 18} \phantom{000000} \quad (9 \times 2) \\  \text{Remainder -->} \quad 0  \end{array}  $	<p>(2)</p> $  \begin{array}{r}  861904 \text{ R1} \\  5 \overline{) 4309521} \\  \underline{- 40} \phantom{000000} \quad (8 \times 5) \\  30 \phantom{000000} \\  \underline{- 30} \phantom{000000} \quad (6 \times 5) \\  09 \phantom{000000} \\  \underline{- 5} \phantom{000000} \quad (1 \times 5) \\  45 \phantom{000000} \\  \underline{- 45} \phantom{000000} \quad (9 \times 5) \\  02 \phantom{000000} \\  \underline{- 0} \phantom{000000} \quad (0 \times 5) \\  21 \phantom{000000} \\  \underline{- 20} \phantom{000000} \quad (4 \times 5) \\  \text{Remainder -->} \quad 1  \end{array}  $	<p>(3)</p> $  \begin{array}{r}  722811 \text{ R1} \\  8 \overline{) 5782489} \\  \underline{- 56} \phantom{000000} \quad (7 \times 8) \\  18 \phantom{000000} \\  \underline{- 16} \phantom{000000} \quad (2 \times 8) \\  22 \phantom{000000} \\  \underline{- 16} \phantom{000000} \quad (2 \times 8) \\  64 \phantom{000000} \\  \underline{- 64} \phantom{000000} \quad (8 \times 8) \\  08 \phantom{000000} \\  \underline{- 8} \phantom{000000} \quad (1 \times 8) \\  09 \phantom{000000} \\  \underline{- 8} \phantom{000000} \quad (1 \times 8) \\  \text{Remainder -->} \quad 1  \end{array}  $
<p>(4)</p> $  \begin{array}{r}  232185 \text{ R3} \\  6 \overline{) 1393113} \\  \underline{- 12} \phantom{000000} \quad (2 \times 6) \\  19 \phantom{000000} \\  \underline{- 18} \phantom{000000} \quad (3 \times 6) \\  13 \phantom{000000} \\  \underline{- 12} \phantom{000000} \quad (2 \times 6) \\  11 \phantom{000000} \\  \underline{- 6} \phantom{000000} \quad (1 \times 6) \\  51 \phantom{000000} \\  \underline{- 48} \phantom{000000} \quad (8 \times 6) \\  33 \phantom{000000} \\  \underline{- 30} \phantom{000000} \quad (5 \times 6) \\  \text{Remainder -->} \quad 3  \end{array}  $	<p>(5)</p> $  \begin{array}{r}  4821076 \text{ R0} \\  2 \overline{) 9642152} \\  \underline{- 8} \phantom{000000} \quad (4 \times 2) \\  16 \phantom{000000} \\  \underline{- 16} \phantom{000000} \quad (8 \times 2) \\  04 \phantom{000000} \\  \underline{- 4} \phantom{000000} \quad (2 \times 2) \\  02 \phantom{000000} \\  \underline{- 2} \phantom{000000} \quad (1 \times 2) \\  01 \phantom{000000} \\  \underline{- 0} \phantom{000000} \quad (0 \times 2) \\  15 \phantom{000000} \\  \underline{- 14} \phantom{000000} \quad (7 \times 2) \\  12 \phantom{000000} \\  \underline{- 12} \phantom{000000} \quad (6 \times 2) \\  \text{Remainder -->} \quad 0  \end{array}  $	<p>(6)</p> $  \begin{array}{r}  379674 \text{ R1} \\  7 \overline{) 2657719} \\  \underline{- 21} \phantom{000000} \quad (3 \times 7) \\  55 \phantom{000000} \\  \underline{- 49} \phantom{000000} \quad (7 \times 7) \\  67 \phantom{000000} \\  \underline{- 63} \phantom{000000} \quad (9 \times 7) \\  47 \phantom{000000} \\  \underline{- 42} \phantom{000000} \quad (6 \times 7) \\  51 \phantom{000000} \\  \underline{- 49} \phantom{000000} \quad (7 \times 7) \\  29 \phantom{000000} \\  \underline{- 28} \phantom{000000} \quad (4 \times 7) \\  \text{Remainder -->} \quad 1  \end{array}  $