

Solved Long Division Problems with Step-By-Step Walkthrough

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

Solutions are on page 2

(1)

$$8 \overline{) 9818584}$$

(2)

$$8 \overline{) 2080032}$$

(3)

$$3 \overline{) 3339738}$$

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

<p>(1)</p> $\begin{array}{r} 1227323 \text{ R}0 \\ 8 \overline{) 9818584} \\ \underline{- 8} \quad (1 \times 8) \\ 18 \\ \underline{- 16} \quad (2 \times 8) \\ 21 \\ \underline{- 16} \quad (2 \times 8) \\ 58 \\ \underline{- 56} \quad (7 \times 8) \\ 25 \\ \underline{- 24} \quad (3 \times 8) \\ 18 \\ \underline{- 16} \quad (2 \times 8) \\ 24 \\ \underline{- 24} \quad (3 \times 8) \\ \text{Remainder -->} \quad 0 \end{array}$ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 9 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 9 (= 1) Bring down the 8</p> <p>Divide 8 into 18 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 18 (= 2) Bring down the 1</p> <p>Divide 8 into 21 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 21 (= 5) Bring down the 8</p> <p>Divide 8 into 58 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 58 (= 2) Bring down the 5</p> <p>Divide 8 into 25 (= 3) Multiply 3 times 8 (= 24) Subtract 24 from 25 (= 1) Bring down the 8</p> <p>Divide 8 into 18 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 18 (= 2) Bring down the 4</p>	<p>(2)</p> $\begin{array}{r} 260004 \text{ R}0 \\ 8 \overline{) 2080032} \\ \underline{- 16} \quad (2 \times 8) \\ 48 \\ \underline{- 48} \quad (6 \times 8) \\ 00 \\ \underline{- 0} \quad (0 \times 8) \\ 00 \\ \underline{- 0} \quad (0 \times 8) \\ 03 \\ \underline{- 0} \quad (0 \times 8) \\ 32 \\ \underline{- 32} \quad (4 \times 8) \\ \text{Remainder -->} \quad 0 \end{array}$ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 20 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 20 (= 4) Bring down the 8</p> <p>Divide 8 into 48 (= 6) Multiply 6 times 8 (= 48) Subtract 48 from 48 (= 0) Bring down the 0</p> <p>Divide 8 into 00 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 00 (= 0) Bring down the 0</p> <p>Divide 8 into 00 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 00 (= 0) Bring down the 0</p> <p>Divide 8 into 03 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 03 (= 3) Bring down the 2</p> <p>Divide 8 into 32 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 32 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $\begin{array}{r} 1113246 \text{ R}0 \\ 3 \overline{) 3339738} \\ \underline{- 3} \quad (1 \times 3) \\ 03 \\ \underline{- 3} \quad (1 \times 3) \\ 03 \\ \underline{- 3} \quad (1 \times 3) \\ 09 \\ \underline{- 9} \quad (3 \times 3) \\ 07 \\ \underline{- 6} \quad (2 \times 3) \\ 13 \\ \underline{- 12} \quad (4 \times 3) \\ 18 \\ \underline{- 18} \quad (6 \times 3) \\ \text{Remainder -->} \quad 0 \end{array}$ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 3 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 3 (= 0) Bring down the 3</p> <p>Divide 3 into 03 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 03 (= 0) Bring down the 3</p> <p>Divide 3 into 03 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 03 (= 0) Bring down the 9</p> <p>Divide 3 into 09 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 09 (= 0) Bring down the 7</p> <p>Divide 3 into 07 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 07 (= 1) Bring down the 3</p> <p>Divide 3 into 13 (= 4) Multiply 4 times 3 (= 12) Subtract 12 from 13 (= 1) Bring down the 8</p>
<p>Divide 8 into 24 (= 3) Multiply 3 times 8 (= 24) Subtract 24 from 24 (= 0) Done. No more numbers to bring down.</p>	<p>www.worksheetsandwalkthroughs.com, Page 2/2</p>	<p>Divide 3 into 18 (= 6) Multiply 6 times 3 (= 18) Subtract 18 from 18 (= 0) Done. No more numbers to bring down.</p>