

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)

$$8 \overline{)862438}$$

(2)

$$3 \overline{)355200}$$

(3)

$$9 \overline{)375017}$$

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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} 107804 \text{ R}6 \\ 8 \overline{) 862438} \\ \underline{- 8} \qquad (1 \times 8) \\ 06 \\ \underline{- 0} \qquad (0 \times 8) \\ 62 \\ \underline{- 56} \qquad (7 \times 8) \\ 64 \\ \underline{- 64} \qquad (8 \times 8) \\ 03 \\ \underline{- 0} \qquad (0 \times 8) \\ 38 \\ \underline{- 32} \qquad (4 \times 8) \\ \text{Remainder -->} \quad 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 8 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 8 (= 0) Bring down the 6</p> <p>Divide 8 into 06 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 06 (= 6) Bring down the 2</p> <p>Divide 8 into 62 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 62 (= 6) Bring down the 4</p> <p>Divide 8 into 64 (= 8) Multiply 8 times 8 (= 64) Subtract 64 from 64 (= 0) Bring down the 3</p> <p>Divide 8 into 03 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 03 (= 3) Bring down the 8</p> <p>Divide 8 into 38 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 38 (= 6) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 118400 \text{ R}0 \\ 3 \overline{) 355200} \\ \underline{- 3} \qquad (1 \times 3) \\ 05 \\ \underline{- 3} \qquad (1 \times 3) \\ 25 \\ \underline{- 24} \qquad (8 \times 3) \\ 12 \\ \underline{- 12} \qquad (4 \times 3) \\ 00 \\ \underline{- 0} \qquad (0 \times 3) \\ 00 \\ \underline{- 0} \qquad (0 \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 5</p> <p>Divide 3 into 05 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 05 (= 2) Bring down the 5</p> <p>Divide 3 into 25 (= 8) Multiply 8 times 3 (= 24) Subtract 24 from 25 (= 1) Bring down the 2</p> <p>Divide 3 into 12 (= 4) Multiply 4 times 3 (= 12) Subtract 12 from 12 (= 0) Bring down the 0</p> <p>Divide 3 into 00 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 00 (= 0) Bring down the 0</p> <p>Divide 3 into 00 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 00 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 41668 \text{ R}5 \\ 9 \overline{) 375017} \\ \underline{- 36} \qquad (4 \times 9) \\ 15 \\ \underline{- 9} \qquad (1 \times 9) \\ 60 \\ \underline{- 54} \qquad (6 \times 9) \\ 61 \\ \underline{- 54} \qquad (6 \times 9) \\ 77 \\ \underline{- 72} \qquad (8 \times 9) \\ \text{Remainder -->} \quad 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 37 (= 4) Multiply 4 times 9 (= 36) Subtract 36 from 37 (= 1) Bring down the 5</p> <p>Divide 9 into 15 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 15 (= 6) Bring down the 0</p> <p>Divide 9 into 60 (= 6) Multiply 6 times 9 (= 54) Subtract 54 from 60 (= 6) Bring down the 1</p> <p>Divide 9 into 61 (= 6) Multiply 6 times 9 (= 54) Subtract 54 from 61 (= 7) Bring down the 7</p> <p>Divide 9 into 77 (= 8) Multiply 8 times 9 (= 72) Subtract 72 from 77 (= 5) Done. No more numbers to bring down.</p>
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