

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)

$$9 \overline{) 57940}$$

(2)

$$8 \overline{) 20112}$$

(3)

$$7 \overline{) 31586}$$

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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} 6437 \text{ R}7 \\ 9 \overline{) 57940} \\ \underline{- 54} \qquad (6 \times 9) \\ 39 \\ \underline{- 36} \qquad (4 \times 9) \\ 34 \\ \underline{- 27} \qquad (3 \times 9) \\ 70 \\ \underline{- 63} \qquad (7 \times 9) \\ \text{Remainder --> } 7 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 57 (= 6) Multiply 6 times 9 (= 54) Subtract 54 from 57 (= 3) Bring down the 9</p> <p>Divide 9 into 39 (= 4) Multiply 4 times 9 (= 36) Subtract 36 from 39 (= 3) Bring down the 4</p> <p>Divide 9 into 34 (= 3) Multiply 3 times 9 (= 27) Subtract 27 from 34 (= 7) Bring down the 0</p> <p>Divide 9 into 70 (= 7) Multiply 7 times 9 (= 63) Subtract 63 from 70 (= 7) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 2514 \text{ R}0 \\ 8 \overline{) 20112} \\ \underline{- 16} \qquad (2 \times 8) \\ 41 \\ \underline{- 40} \qquad (5 \times 8) \\ 11 \\ \underline{- 8} \qquad (1 \times 8) \\ 32 \\ \underline{- 32} \qquad (4 \times 8) \\ \text{Remainder --> } 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 1</p> <p>Divide 8 into 41 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 41 (= 1) Bring down the 1</p> <p>Divide 8 into 11 (= 1) Multiply 1 times 8 (= 8) Subtract 8 from 11 (= 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} 4512 \text{ R}2 \\ 7 \overline{) 31586} \\ \underline{- 28} \qquad (4 \times 7) \\ 35 \\ \underline{- 35} \qquad (5 \times 7) \\ 08 \\ \underline{- 7} \qquad (1 \times 7) \\ 16 \\ \underline{- 14} \qquad (2 \times 7) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 31 (= 4) Multiply 4 times 7 (= 28) Subtract 28 from 31 (= 3) Bring down the 5</p> <p>Divide 7 into 35 (= 5) Multiply 5 times 7 (= 35) Subtract 35 from 35 (= 0) Bring down the 8</p> <p>Divide 7 into 08 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 08 (= 1) Bring down the 6</p> <p>Divide 7 into 16 (= 2) Multiply 2 times 7 (= 14) Subtract 14 from 16 (= 2) Done. No more numbers to bring down.</p>
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