

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)

$$6 \overline{) 7150041}$$

(2)

$$3 \overline{) 9328618}$$

(3)

$$6 \overline{) 3931616}$$

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

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| <p>(1)</p> $ \begin{array}{r} 1191673 \text{ R}3 \\ 6 \overline{) 7150041} \\ \underline{- 6} \qquad (1 \times 6) \\ 11 \\ \underline{- 6} \qquad (1 \times 6) \\ 55 \\ \underline{- 54} \qquad (9 \times 6) \\ 10 \\ \underline{- 6} \qquad (1 \times 6) \\ 40 \\ \underline{- 36} \qquad (6 \times 6) \\ 44 \\ \underline{- 42} \qquad (7 \times 6) \\ 21 \\ \underline{- 18} \qquad (3 \times 6) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 7 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 7 (= 1) Bring down the 1</p> <p>Divide 6 into 11 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 11 (= 5) Bring down the 5</p> <p>Divide 6 into 55 (= 9) Multiply 9 times 6 (= 54) Subtract 54 from 55 (= 1) Bring down the 0</p> <p>Divide 6 into 10 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 10 (= 4) Bring down the 0</p> <p>Divide 6 into 40 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 40 (= 4) Bring down the 4</p> <p>Divide 6 into 44 (= 7) Multiply 7 times 6 (= 42) Subtract 42 from 44 (= 2) Bring down the 1</p> <p>Divide 6 into 21 (= 3) Multiply 3 times 6 (= 18) Subtract 18 from 21 (= 3) Done. No more numbers to bring down.</p> | <p>(2)</p> $ \begin{array}{r} 3109539 \text{ R}1 \\ 3 \overline{) 9328618} \\ \underline{- 9} \qquad (3 \times 3) \\ 03 \\ \underline{- 3} \qquad (1 \times 3) \\ 02 \\ \underline{- 0} \qquad (0 \times 3) \\ 28 \\ \underline{- 27} \qquad (9 \times 3) \\ 16 \\ \underline{- 15} \qquad (5 \times 3) \\ 11 \\ \underline{- 9} \qquad (3 \times 3) \\ 28 \\ \underline{- 27} \qquad (9 \times 3) \\ \text{Remainder -->} \quad 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 9 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 9 (= 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 2</p> <p>Divide 3 into 02 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 02 (= 2) Bring down the 8</p> <p>Divide 3 into 28 (= 9) Multiply 9 times 3 (= 27) Subtract 27 from 28 (= 1) Bring down the 6</p> <p>Divide 3 into 16 (= 5) Multiply 5 times 3 (= 15) Subtract 15 from 16 (= 1) Bring down the 1</p> <p>Divide 3 into 11 (= 3) Multiply 3 times 3 (= 9) Subtract 9 from 11 (= 2) Bring down the 8</p> <p>Divide 3 into 28 (= 9) Multiply 9 times 3 (= 27) Subtract 27 from 28 (= 1) Done. No more numbers to bring down.</p> | <p>(3)</p> $ \begin{array}{r} 655269 \text{ R}2 \\ 6 \overline{) 3931616} \\ \underline{- 36} \qquad (6 \times 6) \\ 33 \\ \underline{- 30} \qquad (5 \times 6) \\ 31 \\ \underline{- 30} \qquad (5 \times 6) \\ 16 \\ \underline{- 12} \qquad (2 \times 6) \\ 41 \\ \underline{- 36} \qquad (6 \times 6) \\ 56 \\ \underline{- 54} \qquad (9 \times 6) \\ \text{Remainder -->} \quad 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 39 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 39 (= 3) Bring down the 3</p> <p>Divide 6 into 33 (= 5) Multiply 5 times 6 (= 30) Subtract 30 from 33 (= 3) Bring down the 1</p> <p>Divide 6 into 31 (= 5) Multiply 5 times 6 (= 30) Subtract 30 from 31 (= 1) Bring down the 6</p> <p>Divide 6 into 16 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 16 (= 4) Bring down the 1</p> <p>Divide 6 into 41 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 41 (= 5) Bring down the 6</p> <p>Divide 6 into 56 (= 9) Multiply 9 times 6 (= 54) Subtract 54 from 56 (= 2) Done. No more numbers to bring down.</p> |
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