

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)

$$6 \overline{) 17067}$$

(2)

$$7 \overline{) 33498}$$

(3)

$$8 \overline{) 67886}$$

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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} 2844 \text{ R}3 \\ 6 \overline{) 17067} \\ \underline{- 12} \qquad (2 \times 6) \\ 50 \\ \underline{- 48} \qquad (8 \times 6) \\ 26 \\ \underline{- 24} \qquad (4 \times 6) \\ 27 \\ \underline{- 24} \qquad (4 \times 6) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 17 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 17 (= 5) Bring down the 0</p> <p>Divide 6 into 50 (= 8) Multiply 8 times 6 (= 48) Subtract 48 from 50 (= 2) Bring down the 6</p> <p>Divide 6 into 26 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 26 (= 2) Bring down the 7</p> <p>Divide 6 into 27 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 27 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 4785 \text{ R}3 \\ 7 \overline{) 33498} \\ \underline{- 28} \qquad (4 \times 7) \\ 54 \\ \underline{- 49} \qquad (7 \times 7) \\ 59 \\ \underline{- 56} \qquad (8 \times 7) \\ 38 \\ \underline{- 35} \qquad (5 \times 7) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 33 (= 4) Multiply 4 times 7 (= 28) Subtract 28 from 33 (= 5) Bring down the 4</p> <p>Divide 7 into 54 (= 7) Multiply 7 times 7 (= 49) Subtract 49 from 54 (= 5) Bring down the 9</p> <p>Divide 7 into 59 (= 8) Multiply 8 times 7 (= 56) Subtract 56 from 59 (= 3) Bring down the 8</p> <p>Divide 7 into 38 (= 5) Multiply 5 times 7 (= 35) Subtract 35 from 38 (= 3) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 8485 \text{ R}6 \\ 8 \overline{) 67886} \\ \underline{- 64} \qquad (8 \times 8) \\ 38 \\ \underline{- 32} \qquad (4 \times 8) \\ 68 \\ \underline{- 64} \qquad (8 \times 8) \\ 46 \\ \underline{- 40} \qquad (5 \times 8) \\ \text{Remainder -->} \quad 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 67 (= 8) Multiply 8 times 8 (= 64) Subtract 64 from 67 (= 3) Bring down the 8</p> <p>Divide 8 into 38 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 38 (= 6) Bring down the 8</p> <p>Divide 8 into 68 (= 8) Multiply 8 times 8 (= 64) Subtract 64 from 68 (= 4) Bring down the 6</p> <p>Divide 8 into 46 (= 5) Multiply 5 times 8 (= 40) Subtract 40 from 46 (= 6) Done. No more numbers to bring down.</p>
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