

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)

$$6 \overline{) 25018}$$

(2)

$$9 \overline{) 98906}$$

(3)

$$8 \overline{) 62246}$$

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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} 4169 \text{ R}4 \\ 6 \overline{) 25018} \\ \underline{- 24} \qquad (4 \times 6) \\ 10 \\ \underline{- 6} \qquad (1 \times 6) \\ 41 \\ \underline{- 36} \qquad (6 \times 6) \\ 58 \\ \underline{- 54} \qquad (9 \times 6) \\ \text{Remainder -->} \quad 4 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 25 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 25 (= 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 1</p> <p>Divide 6 into 41 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 41 (= 5) Bring down the 8</p> <p>Divide 6 into 58 (= 9) Multiply 9 times 6 (= 54) Subtract 54 from 58 (= 4) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 10989 \text{ R}5 \\ 9 \overline{) 98906} \\ \underline{- 9} \qquad (1 \times 9) \\ 08 \\ \underline{- 0} \qquad (0 \times 9) \\ 89 \\ \underline{- 81} \qquad (9 \times 9) \\ 80 \\ \underline{- 72} \qquad (8 \times 9) \\ 86 \\ \underline{- 81} \qquad (9 \times 9) \\ \text{Remainder -->} \quad 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 9 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 9 (= 0) Bring down the 8</p> <p>Divide 9 into 08 (= 0) Multiply 0 times 9 (= 0) Subtract 0 from 08 (= 8) Bring down the 9</p> <p>Divide 9 into 89 (= 9) Multiply 9 times 9 (= 81) Subtract 81 from 89 (= 8) Bring down the 0</p> <p>Divide 9 into 80 (= 8) Multiply 8 times 9 (= 72) Subtract 72 from 80 (= 8) Bring down the 6</p> <p>Divide 9 into 86 (= 9) Multiply 9 times 9 (= 81) Subtract 81 from 86 (= 5) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 7780 \text{ R}6 \\ 8 \overline{) 62246} \\ \underline{- 56} \qquad (7 \times 8) \\ 62 \\ \underline{- 56} \qquad (7 \times 8) \\ 64 \\ \underline{- 64} \qquad (8 \times 8) \\ 06 \\ \underline{- 0} \qquad (0 \times 8) \\ \text{Remainder -->} \quad 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 62 (= 7) Multiply 7 times 8 (= 56) Subtract 56 from 62 (= 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 6</p> <p>Divide 8 into 06 (= 0) Multiply 0 times 8 (= 0) Subtract 0 from 06 (= 6) Done. No more numbers to bring down.</p>
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