

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)

$$6 \overline{) 977}$$

(2)

$$5 \overline{) 483}$$

(3)

$$3 \overline{) 613}$$

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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} 162 \text{ R}5 \\ 6 \overline{) 977} \\ \underline{- 6} \qquad (1 \times 6) \\ 37 \\ \underline{- 36} \qquad (6 \times 6) \\ 17 \\ \underline{- 12} \qquad (2 \times 6) \\ 5 \\ \text{Remainder -->} \end{array} $ <p>Remainder --> 5</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 9 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 9 (= 3) Bring down the 7</p> <p>Divide 6 into 37 (= 6) Multiply 6 times 6 (= 36) Subtract 36 from 37 (= 1) Bring down the 7</p> <p>Divide 6 into 17 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 17 (= 5) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 96 \text{ R}3 \\ 5 \overline{) 483} \\ \underline{- 45} \qquad (9 \times 5) \\ 33 \\ \underline{- 30} \qquad (6 \times 5) \\ 3 \\ \text{Remainder -->} \end{array} $ <p>Remainder --> 3</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 48 (= 9) Multiply 9 times 5 (= 45) Subtract 45 from 48 (= 3) Bring down the 3</p> <p>Divide 5 into 33 (= 6) Multiply 6 times 5 (= 30) Subtract 30 from 33 (= 3) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 204 \text{ R}1 \\ 3 \overline{) 613} \\ \underline{- 6} \qquad (2 \times 3) \\ 01 \\ \underline{- 0} \qquad (0 \times 3) \\ 13 \\ \underline{- 12} \qquad (4 \times 3) \\ 1 \\ \text{Remainder -->} \end{array} $ <p>Remainder --> 1</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 6 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 6 (= 0) Bring down the 1</p> <p>Divide 3 into 01 (= 0) Multiply 0 times 3 (= 0) Subtract 0 from 01 (= 1) Bring down the 3</p> <p>Divide 3 into 13 (= 4) Multiply 4 times 3 (= 12) Subtract 12 from 13 (= 1) Done. No more numbers to bring down.</p>
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