

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)

$$51 \overline{) 3162}$$

(2)

$$60 \overline{) 6279}$$

(3)

$$76 \overline{) 2310}$$

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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} 62 \text{ R}0 \\ 51 \overline{) 3162} \\ \underline{- 306} \quad (6 \times 51) \\ 102 \\ \underline{- 102} \quad (2 \times 51) \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 51 into 316 (= 6) Multiply 6 times 51 (= 306) Subtract 306 from 316 (= 10) Bring down the 2</p> <p>Divide 51 into 102 (= 2) Multiply 2 times 51 (= 102) Subtract 102 from 102 (= 0) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 104 \text{ R}39 \\ 60 \overline{) 6279} \\ \underline{- 60} \quad (1 \times 60) \\ 27 \\ \underline{- 0} \quad (0 \times 60) \\ 279 \\ \underline{- 240} \quad (4 \times 60) \\ \text{Remainder --> } 39 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 60 into 62 (= 1) Multiply 1 times 60 (= 60) Subtract 60 from 62 (= 2) Bring down the 7</p> <p>Divide 60 into 27 (= 0) Multiply 0 times 60 (= 0) Subtract 0 from 27 (= 27) Bring down the 9</p> <p>Divide 60 into 279 (= 4) Multiply 4 times 60 (= 240) Subtract 240 from 279 (= 39) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 30 \text{ R}30 \\ 76 \overline{) 2310} \\ \underline{- 228} \quad (3 \times 76) \\ 30 \\ \underline{- 0} \quad (0 \times 76) \\ \text{Remainder --> } 30 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 76 into 231 (= 3) Multiply 3 times 76 (= 228) Subtract 228 from 231 (= 3) Bring down the 0</p> <p>Divide 76 into 30 (= 0) Multiply 0 times 76 (= 0) Subtract 0 from 30 (= 30) Done. No more numbers to bring down.</p>
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