

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)

$$4 \overline{)604}$$

(2)

$$7 \overline{)132}$$

(3)

$$5 \overline{)841}$$

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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} 151 \text{ R}0 \\ 4 \overline{) 604} \\ \underline{- 4} \qquad (1 \times 4) \\ 20 \\ \underline{- 20} \qquad (5 \times 4) \\ 04 \\ \underline{- 4} \qquad (1 \times 4) \\ 0 \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 6 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 6 (= 2) Bring down the 0</p> <p>Divide 4 into 20 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 20 (= 0) Bring down the 4</p> <p>Divide 4 into 04 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 04 (= 0) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 18 \text{ R}6 \\ 7 \overline{) 132} \\ \underline{- 7} \qquad (1 \times 7) \\ 62 \\ \underline{- 56} \qquad (8 \times 7) \\ \text{Remainder --> } 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 13 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 13 (= 6) Bring down the 2</p> <p>Divide 7 into 62 (= 8) Multiply 8 times 7 (= 56) Subtract 56 from 62 (= 6) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 168 \text{ R}1 \\ 5 \overline{) 841} \\ \underline{- 5} \qquad (1 \times 5) \\ 34 \\ \underline{- 30} \qquad (6 \times 5) \\ 41 \\ \underline{- 40} \qquad (8 \times 5) \\ \text{Remainder --> } 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 8 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 8 (= 3) Bring down the 4</p> <p>Divide 5 into 34 (= 6) Multiply 6 times 5 (= 30) Subtract 30 from 34 (= 4) Bring down the 1</p> <p>Divide 5 into 41 (= 8) Multiply 8 times 5 (= 40) Subtract 40 from 41 (= 1) Done. No more numbers to bring down.</p>
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