

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)

$$14 \overline{) 744195}$$

(2)

$$96 \overline{) 553198}$$

(3)

$$84 \overline{) 618459}$$

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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} 53156 \text{ R}11 \\ 14 \overline{) 744195} \\ \underline{- 70} \qquad (5 \times 14) \\ 44 \\ \underline{- 42} \qquad (3 \times 14) \\ 21 \\ \underline{- 14} \qquad (1 \times 14) \\ 79 \\ \underline{- 70} \qquad (5 \times 14) \\ 95 \\ \underline{- 84} \qquad (6 \times 14) \\ 11 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 14 into 74 (= 5) Multiply 5 times 14 (= 70) Subtract 70 from 74 (= 4) Bring down the 4</p> <p>Divide 14 into 44 (= 3) Multiply 3 times 14 (= 42) Subtract 42 from 44 (= 2) Bring down the 1</p> <p>Divide 14 into 21 (= 1) Multiply 1 times 14 (= 14) Subtract 14 from 21 (= 7) Bring down the 9</p> <p>Divide 14 into 79 (= 5) Multiply 5 times 14 (= 70) Subtract 70 from 79 (= 9) Bring down the 5</p> <p>Divide 14 into 95 (= 6) Multiply 6 times 14 (= 84) Subtract 84 from 95 (= 11) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 5762 \text{ R}46 \\ 96 \overline{) 553198} \\ \underline{- 480} \qquad (5 \times 96) \\ 731 \\ \underline{- 672} \qquad (7 \times 96) \\ 599 \\ \underline{- 576} \qquad (6 \times 96) \\ 238 \\ \underline{- 192} \qquad (2 \times 96) \\ 46 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 96 into 553 (= 5) Multiply 5 times 96 (= 480) Subtract 480 from 553 (= 73) Bring down the 1</p> <p>Divide 96 into 731 (= 7) Multiply 7 times 96 (= 672) Subtract 672 from 731 (= 59) Bring down the 9</p> <p>Divide 96 into 599 (= 6) Multiply 6 times 96 (= 576) Subtract 576 from 599 (= 23) Bring down the 8</p> <p>Divide 96 into 238 (= 2) Multiply 2 times 96 (= 192) Subtract 192 from 238 (= 46) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 7362 \text{ R}51 \\ 84 \overline{) 618459} \\ \underline{- 588} \qquad (7 \times 84) \\ 304 \\ \underline{- 252} \qquad (3 \times 84) \\ 525 \\ \underline{- 504} \qquad (6 \times 84) \\ 219 \\ \underline{- 168} \qquad (2 \times 84) \\ 51 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 84 into 618 (= 7) Multiply 7 times 84 (= 588) Subtract 588 from 618 (= 30) Bring down the 4</p> <p>Divide 84 into 304 (= 3) Multiply 3 times 84 (= 252) Subtract 252 from 304 (= 52) Bring down the 5</p> <p>Divide 84 into 525 (= 6) Multiply 6 times 84 (= 504) Subtract 504 from 525 (= 21) Bring down the 9</p> <p>Divide 84 into 219 (= 2) Multiply 2 times 84 (= 168) Subtract 168 from 219 (= 51) Done. No more numbers to bring down.</p>
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