

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)

$$8 \overline{) 54595}$$

(2)

$$7 \overline{) 68249}$$

(3)

$$4 \overline{) 15261}$$

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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} 6824 \text{ R}3 \\ 8 \overline{) 54595} \\ \underline{- 48} \qquad (6 \times 8) \\ 65 \\ \underline{- 64} \qquad (8 \times 8) \\ 19 \\ \underline{- 16} \qquad (2 \times 8) \\ 35 \\ \underline{- 32} \qquad (4 \times 8) \\ \text{Remainder -->} \quad 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 54 (= 6) Multiply 6 times 8 (= 48) Subtract 48 from 54 (= 6) Bring down the 5</p> <p>Divide 8 into 65 (= 8) Multiply 8 times 8 (= 64) Subtract 64 from 65 (= 1) Bring down the 9</p> <p>Divide 8 into 19 (= 2) Multiply 2 times 8 (= 16) Subtract 16 from 19 (= 3) Bring down the 5</p> <p>Divide 8 into 35 (= 4) Multiply 4 times 8 (= 32) Subtract 32 from 35 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 9749 \text{ R}6 \\ 7 \overline{) 68249} \\ \underline{- 63} \qquad (9 \times 7) \\ 52 \\ \underline{- 49} \qquad (7 \times 7) \\ 34 \\ \underline{- 28} \qquad (4 \times 7) \\ 69 \\ \underline{- 63} \qquad (9 \times 7) \\ \text{Remainder -->} \quad 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 68 (= 9) Multiply 9 times 7 (= 63) Subtract 63 from 68 (= 5) Bring down the 2</p> <p>Divide 7 into 52 (= 7) Multiply 7 times 7 (= 49) Subtract 49 from 52 (= 3) Bring down the 4</p> <p>Divide 7 into 34 (= 4) Multiply 4 times 7 (= 28) Subtract 28 from 34 (= 6) Bring down the 9</p> <p>Divide 7 into 69 (= 9) Multiply 9 times 7 (= 63) Subtract 63 from 69 (= 6) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 3815 \text{ R}1 \\ 4 \overline{) 15261} \\ \underline{- 12} \qquad (3 \times 4) \\ 32 \\ \underline{- 32} \qquad (8 \times 4) \\ 06 \\ \underline{- 4} \qquad (1 \times 4) \\ 21 \\ \underline{- 20} \qquad (5 \times 4) \\ \text{Remainder -->} \quad 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 15 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 15 (= 3) Bring down the 2</p> <p>Divide 4 into 32 (= 8) Multiply 8 times 4 (= 32) Subtract 32 from 32 (= 0) Bring down the 6</p> <p>Divide 4 into 06 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 06 (= 2) Bring down the 1</p> <p>Divide 4 into 21 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 21 (= 1) Done. No more numbers to bring down.</p>
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