

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)

$$7 \overline{)62646}$$

(2)

$$7 \overline{)70853}$$

(3)

$$7 \overline{)27242}$$

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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} 8949 \text{ R}3 \\ 7 \overline{) 62646} \\ \underline{- 56} \qquad (8 \times 7) \\ 66 \\ \underline{- 63} \qquad (9 \times 7) \\ 34 \\ \underline{- 28} \qquad (4 \times 7) \\ 66 \\ \underline{- 63} \qquad (9 \times 7) \\ \text{Remainder --> } 3 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 62 (= 8) Multiply 8 times 7 (= 56) Subtract 56 from 62 (= 6) Bring down the 6</p> <p>Divide 7 into 66 (= 9) Multiply 9 times 7 (= 63) Subtract 63 from 66 (= 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 6</p> <p>Divide 7 into 66 (= 9) Multiply 9 times 7 (= 63) Subtract 63 from 66 (= 3) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 10121 \text{ R}6 \\ 7 \overline{) 70853} \\ \underline{- 7} \qquad (1 \times 7) \\ 00 \\ \underline{- 0} \qquad (0 \times 7) \\ 08 \\ \underline{- 7} \qquad (1 \times 7) \\ 15 \\ \underline{- 14} \qquad (2 \times 7) \\ 13 \\ \underline{- 7} \qquad (1 \times 7) \\ \text{Remainder --> } 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 7 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 7 (= 0) Bring down the 0</p> <p>Divide 7 into 00 (= 0) Multiply 0 times 7 (= 0) Subtract 0 from 00 (= 0) Bring down the 8</p> <p>Divide 7 into 08 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 08 (= 1) Bring down the 5</p> <p>Divide 7 into 15 (= 2) Multiply 2 times 7 (= 14) Subtract 14 from 15 (= 1) Bring down the 3</p> <p>Divide 7 into 13 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 13 (= 6) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 3891 \text{ R}5 \\ 7 \overline{) 27242} \\ \underline{- 21} \qquad (3 \times 7) \\ 62 \\ \underline{- 56} \qquad (8 \times 7) \\ 64 \\ \underline{- 63} \qquad (9 \times 7) \\ 12 \\ \underline{- 7} \qquad (1 \times 7) \\ \text{Remainder --> } 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 27 (= 3) Multiply 3 times 7 (= 21) Subtract 21 from 27 (= 6) Bring down the 2</p> <p>Divide 7 into 62 (= 8) Multiply 8 times 7 (= 56) Subtract 56 from 62 (= 6) Bring down the 4</p> <p>Divide 7 into 64 (= 9) Multiply 9 times 7 (= 63) Subtract 63 from 64 (= 1) Bring down the 2</p> <p>Divide 7 into 12 (= 1) Multiply 1 times 7 (= 7) Subtract 7 from 12 (= 5) Done. No more numbers to bring down.</p>
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