

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)

$$3 \overline{) 5787}$$

(2)

$$2 \overline{) 7225}$$

(3)

$$4 \overline{) 4134}$$

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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} 1929 \text{ R0} \\ 3 \overline{) 5787} \\ \underline{- 3} \\ 27 \\ \underline{- 27} \\ 08 \\ \underline{- 6} \\ 27 \\ \underline{- 27} \\ \text{Remainder --> } 0 \end{array} $ <p> (1 x 3) (9 x 3) (2 x 3) (9 x 3) </p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p> Divide 3 into 5 (= 1) Multiply 1 times 3 (= 3) Subtract 3 from 5 (= 2) Bring down the 7 </p> <p> Divide 3 into 27 (= 9) Multiply 9 times 3 (= 27) Subtract 27 from 27 (= 0) Bring down the 8 </p> <p> Divide 3 into 08 (= 2) Multiply 2 times 3 (= 6) Subtract 6 from 08 (= 2) Bring down the 7 </p> <p> Divide 3 into 27 (= 9) Multiply 9 times 3 (= 27) Subtract 27 from 27 (= 0) Done. No more numbers to bring down. </p>	<p>(2)</p> $ \begin{array}{r} 3612 \text{ R1} \\ 2 \overline{) 7225} \\ \underline{- 6} \\ 12 \\ \underline{- 12} \\ 02 \\ \underline{- 2} \\ 05 \\ \underline{- 4} \\ \text{Remainder --> } 1 \end{array} $ <p> (3 x 2) (6 x 2) (1 x 2) (2 x 2) </p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p> Divide 2 into 7 (= 3) Multiply 3 times 2 (= 6) Subtract 6 from 7 (= 1) Bring down the 2 </p> <p> Divide 2 into 12 (= 6) Multiply 6 times 2 (= 12) Subtract 12 from 12 (= 0) Bring down the 2 </p> <p> Divide 2 into 02 (= 1) Multiply 1 times 2 (= 2) Subtract 2 from 02 (= 0) Bring down the 5 </p> <p> Divide 2 into 05 (= 2) Multiply 2 times 2 (= 4) Subtract 4 from 05 (= 1) Done. No more numbers to bring down. </p>	<p>(3)</p> $ \begin{array}{r} 1033 \text{ R2} \\ 4 \overline{) 4134} \\ \underline{- 4} \\ 01 \\ \underline{- 0} \\ 13 \\ \underline{- 12} \\ 14 \\ \underline{- 12} \\ \text{Remainder --> } 2 \end{array} $ <p> (1 x 4) (0 x 4) (3 x 4) (3 x 4) </p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p> Divide 4 into 4 (= 1) Multiply 1 times 4 (= 4) Subtract 4 from 4 (= 0) Bring down the 1 </p> <p> Divide 4 into 01 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 01 (= 1) Bring down the 3 </p> <p> Divide 4 into 13 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 13 (= 1) Bring down the 4 </p> <p> Divide 4 into 14 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 14 (= 2) Done. No more numbers to bring down. </p>
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