

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)

$$687 \overline{)8435}$$

(2)

$$243 \overline{)4785}$$

(3)

$$287 \overline{)1241}$$

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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} 12 \text{ R}191 \\ 687 \overline{) 8435} \\ \underline{- 687} \quad (1 \times 687) \\ 1565 \\ \underline{- 1374} \quad (2 \times 687) \\ \text{Remainder --> } 191 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 687 into 843 (= 1) Multiply 1 times 687 (= 687) Subtract 687 from 843 (= 156) Bring down the 5</p> <p>Divide 687 into 1565 (= 2) Multiply 2 times 687 (= 1374) Subtract 1374 from 1565 (= 191) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 19 \text{ R}168 \\ 243 \overline{) 4785} \\ \underline{- 243} \quad (1 \times 243) \\ 2355 \\ \underline{- 2187} \quad (9 \times 243) \\ \text{Remainder --> } 168 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 243 into 478 (= 1) Multiply 1 times 243 (= 243) Subtract 243 from 478 (= 235) Bring down the 5</p> <p>Divide 243 into 2355 (= 9) Multiply 9 times 243 (= 2187) Subtract 2187 from 2355 (= 168) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 4 \text{ R}93 \\ 287 \overline{) 1241} \\ \underline{- 1148} \quad (4 \times 287) \\ \text{Remainder --> } 93 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 287 into 1241 (= 4) Multiply 4 times 287 (= 1148) Subtract 1148 from 1241 (= 93) Done. No more numbers to bring down.</p>
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