

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)

$$406 \overline{)4089}$$

(2)

$$166 \overline{)6262}$$

(3)

$$543 \overline{)6935}$$

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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} 10 \text{ R}29 \\ 406 \overline{) 4089} \\ \underline{- 406} \quad (1 \times 406) \\ 29 \\ \underline{- 0} \quad (0 \times 406) \\ 29 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 406 into 408 (= 1) Multiply 1 times 406 (= 406) Subtract 406 from 408 (= 2) Bring down the 9</p> <p>Divide 406 into 29 (= 0) Multiply 0 times 406 (= 0) Subtract 0 from 29 (= 29) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 37 \text{ R}120 \\ 166 \overline{) 6262} \\ \underline{- 498} \quad (3 \times 166) \\ 1282 \\ \underline{- 1162} \quad (7 \times 166) \\ 120 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 166 into 626 (= 3) Multiply 3 times 166 (= 498) Subtract 498 from 626 (= 128) Bring down the 2</p> <p>Divide 166 into 1282 (= 7) Multiply 7 times 166 (= 1162) Subtract 1162 from 1282 (= 120) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 12 \text{ R}419 \\ 543 \overline{) 6935} \\ \underline{- 543} \quad (1 \times 543) \\ 1505 \\ \underline{- 1086} \quad (2 \times 543) \\ 419 \\ \text{Remainder -->} \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 543 into 693 (= 1) Multiply 1 times 543 (= 543) Subtract 543 from 693 (= 150) Bring down the 5</p> <p>Divide 543 into 1505 (= 2) Multiply 2 times 543 (= 1086) Subtract 1086 from 1505 (= 419) Done. No more numbers to bring down.</p>
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