

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)

$$45 \overline{) 503}$$

(2)

$$50 \overline{) 966}$$

(3)

$$38 \overline{) 220}$$

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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} 11 \text{ R}8 \\ 45 \overline{) 503} \\ \underline{- 45} \\ 53 \\ \underline{- 45} \\ 8 \end{array} $ <p style="text-align: right;"><i>(1 x 45)</i></p> <p style="text-align: right;"><i>(1 x 45)</i></p> <p>Remainder --> 8</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 45 into 50 (= 1) Multiply 1 times 45 (= 45) Subtract 45 from 50 (= 5) Bring down the 3</p> <p>Divide 45 into 53 (= 1) Multiply 1 times 45 (= 45) Subtract 45 from 53 (= 8) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 19 \text{ R}16 \\ 50 \overline{) 966} \\ \underline{- 50} \\ 466 \\ \underline{- 450} \\ 16 \end{array} $ <p style="text-align: right;"><i>(1 x 50)</i></p> <p style="text-align: right;"><i>(9 x 50)</i></p> <p>Remainder --> 16</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 50 into 96 (= 1) Multiply 1 times 50 (= 50) Subtract 50 from 96 (= 46) Bring down the 6</p> <p>Divide 50 into 466 (= 9) Multiply 9 times 50 (= 450) Subtract 450 from 466 (= 16) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 5 \text{ R}30 \\ 38 \overline{) 220} \\ \underline{- 190} \\ 30 \end{array} $ <p style="text-align: right;"><i>(5 x 38)</i></p> <p>Remainder --> 30</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 38 into 220 (= 5) Multiply 5 times 38 (= 190) Subtract 190 from 220 (= 30) Done. No more numbers to bring down.</p>
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