

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)

$$670 \overline{)48090}$$

(2)

$$803 \overline{)86922}$$

(3)

$$230 \overline{)95682}$$

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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} 71 \text{ R}520 \\ 670 \overline{) 48090} \\ \underline{- 4690} \quad (7 \times 670) \\ 1190 \\ \underline{- 670} \quad (1 \times 670) \\ \text{Remainder --> } 520 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 670 into 4809 (= 7) Multiply 7 times 670 (= 4690) Subtract 4690 from 4809 (= 119) Bring down the 0</p> <p>Divide 670 into 1190 (= 1) Multiply 1 times 670 (= 670) Subtract 670 from 1190 (= 520) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 108 \text{ R}198 \\ 803 \overline{) 86922} \\ \underline{- 803} \quad (1 \times 803) \\ 662 \\ \underline{- 0} \quad (0 \times 803) \\ 6622 \\ \underline{- 6424} \quad (8 \times 803) \\ \text{Remainder --> } 198 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 803 into 869 (= 1) Multiply 1 times 803 (= 803) Subtract 803 from 869 (= 66) Bring down the 2</p> <p>Divide 803 into 662 (= 0) Multiply 0 times 803 (= 0) Subtract 0 from 662 (= 662) Bring down the 2</p> <p>Divide 803 into 6622 (= 8) Multiply 8 times 803 (= 6424) Subtract 6424 from 6622 (= 198) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 416 \text{ R}2 \\ 230 \overline{) 95682} \\ \underline{- 920} \quad (4 \times 230) \\ 368 \\ \underline{- 230} \quad (1 \times 230) \\ 1382 \\ \underline{- 1380} \quad (6 \times 230) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 230 into 956 (= 4) Multiply 4 times 230 (= 920) Subtract 920 from 956 (= 36) Bring down the 8</p> <p>Divide 230 into 368 (= 1) Multiply 1 times 230 (= 230) Subtract 230 from 368 (= 138) Bring down the 2</p> <p>Divide 230 into 1382 (= 6) Multiply 6 times 230 (= 1380) Subtract 1380 from 1382 (= 2) Done. No more numbers to bring down.</p>
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