

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)

$$990 \overline{) 906578}$$

(2)

$$696 \overline{) 324454}$$

(3)

$$787 \overline{) 872756}$$

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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} 915 \text{ R}728 \\ 990 \overline{) 906578} \\ \underline{- 8910} \quad (9 \times 990) \\ 1557 \\ \underline{- 990} \quad (1 \times 990) \\ 5678 \\ \underline{- 4950} \quad (5 \times 990) \\ \text{Remainder --> } 728 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 990 into 9065 (= 9) Multiply 9 times 990 (= 8910) Subtract 8910 from 9065 (= 155) Bring down the 7</p> <p>Divide 990 into 1557 (= 1) Multiply 1 times 990 (= 990) Subtract 990 from 1557 (= 567) Bring down the 8</p> <p>Divide 990 into 5678 (= 5) Multiply 5 times 990 (= 4950) Subtract 4950 from 5678 (= 728) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 466 \text{ R}118 \\ 696 \overline{) 324454} \\ \underline{- 2784} \quad (4 \times 696) \\ 4605 \\ \underline{- 4176} \quad (6 \times 696) \\ 4294 \\ \underline{- 4176} \quad (6 \times 696) \\ \text{Remainder --> } 118 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 696 into 3244 (= 4) Multiply 4 times 696 (= 2784) Subtract 2784 from 3244 (= 460) Bring down the 5</p> <p>Divide 696 into 4605 (= 6) Multiply 6 times 696 (= 4176) Subtract 4176 from 4605 (= 429) Bring down the 4</p> <p>Divide 696 into 4294 (= 6) Multiply 6 times 696 (= 4176) Subtract 4176 from 4294 (= 118) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1108 \text{ R}760 \\ 787 \overline{) 872756} \\ \underline{- 787} \quad (1 \times 787) \\ 857 \\ \underline{- 787} \quad (1 \times 787) \\ 705 \\ \underline{- 0} \quad (0 \times 787) \\ 7056 \\ \underline{- 6296} \quad (8 \times 787) \\ \text{Remainder --> } 760 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 787 into 872 (= 1) Multiply 1 times 787 (= 787) Subtract 787 from 872 (= 85) Bring down the 7</p> <p>Divide 787 into 857 (= 1) Multiply 1 times 787 (= 787) Subtract 787 from 857 (= 70) Bring down the 5</p> <p>Divide 787 into 705 (= 0) Multiply 0 times 787 (= 0) Subtract 0 from 705 (= 705) Bring down the 6</p> <p>Divide 787 into 7056 (= 8) Multiply 8 times 787 (= 6296) Subtract 6296 from 7056 (= 760) Done. No more numbers to bring down.</p>
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