

# 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)

$$11 \overline{) 1768312}$$

(2)

$$60 \overline{) 9903010}$$

(3)

$$87 \overline{) 2484745}$$

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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}  160755 \text{ R}7 \\  11 \overline{) 1768312} \\  \underline{- 11} \qquad (1 \times 11) \\  66 \\  \underline{- 66} \qquad (6 \times 11) \\  08 \\  \underline{- 0} \qquad (0 \times 11) \\  83 \\  \underline{- 77} \qquad (7 \times 11) \\  61 \\  \underline{- 55} \qquad (5 \times 11) \\  62 \\  \underline{- 55} \qquad (5 \times 11) \\  7  \end{array}  $ <p>Remainder --&gt; 7</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 11 into 17 (= 1)            Multiply 1 times 11 (= 11)            Subtract 11 from 17 (= 6)            Bring down the 6</p> <p>Divide 11 into 66 (= 6)            Multiply 6 times 11 (= 66)            Subtract 66 from 66 (= 0)            Bring down the 8</p> <p>Divide 11 into 08 (= 0)            Multiply 0 times 11 (= 0)            Subtract 0 from 08 (= 8)            Bring down the 3</p> <p>Divide 11 into 83 (= 7)            Multiply 7 times 11 (= 77)            Subtract 77 from 83 (= 6)            Bring down the 1</p> <p>Divide 11 into 61 (= 5)            Multiply 5 times 11 (= 55)            Subtract 55 from 61 (= 6)            Bring down the 2</p> <p>Divide 11 into 62 (= 5)            Multiply 5 times 11 (= 55)            Subtract 55 from 62 (= 7)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  165050 \text{ R}10 \\  60 \overline{) 9903010} \\  \underline{- 60} \qquad (1 \times 60) \\  390 \\  \underline{- 360} \qquad (6 \times 60) \\  303 \\  \underline{- 300} \qquad (5 \times 60) \\  30 \\  \underline{- 0} \qquad (0 \times 60) \\  301 \\  \underline{- 300} \qquad (5 \times 60) \\  10 \\  \underline{- 0} \qquad (0 \times 60) \\  10  \end{array}  $ <p>Remainder --&gt; 10</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 60 into 99 (= 1)            Multiply 1 times 60 (= 60)            Subtract 60 from 99 (= 39)            Bring down the 0</p> <p>Divide 60 into 390 (= 6)            Multiply 6 times 60 (= 360)            Subtract 360 from 390 (= 30)            Bring down the 3</p> <p>Divide 60 into 303 (= 5)            Multiply 5 times 60 (= 300)            Subtract 300 from 303 (= 3)            Bring down the 0</p> <p>Divide 60 into 30 (= 0)            Multiply 0 times 60 (= 0)            Subtract 0 from 30 (= 30)            Bring down the 1</p> <p>Divide 60 into 301 (= 5)            Multiply 5 times 60 (= 300)            Subtract 300 from 301 (= 1)            Bring down the 0</p> <p>Divide 60 into 10 (= 0)            Multiply 0 times 60 (= 0)            Subtract 0 from 10 (= 10)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  28560 \text{ R}25 \\  87 \overline{) 2484745} \\  \underline{- 174} \qquad (2 \times 87) \\  744 \\  \underline{- 696} \qquad (8 \times 87) \\  487 \\  \underline{- 435} \qquad (5 \times 87) \\  524 \\  \underline{- 522} \qquad (6 \times 87) \\  25 \\  \underline{- 0} \qquad (0 \times 87) \\  25  \end{array}  $ <p>Remainder --&gt; 25</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 87 into 248 (= 2)            Multiply 2 times 87 (= 174)            Subtract 174 from 248 (= 74)            Bring down the 4</p> <p>Divide 87 into 744 (= 8)            Multiply 8 times 87 (= 696)            Subtract 696 from 744 (= 48)            Bring down the 7</p> <p>Divide 87 into 487 (= 5)            Multiply 5 times 87 (= 435)            Subtract 435 from 487 (= 52)            Bring down the 4</p> <p>Divide 87 into 524 (= 6)            Multiply 6 times 87 (= 522)            Subtract 522 from 524 (= 2)            Bring down the 5</p> <p>Divide 87 into 25 (= 0)            Multiply 0 times 87 (= 0)            Subtract 0 from 25 (= 25)            Done. No more numbers to bring down.</p>
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