

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)

$$711 \overline{) 126076}$$

(2)

$$322 \overline{) 198141}$$

(3)

$$128 \overline{) 532862}$$

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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} 177 \text{ R}229 \\ 711 \overline{) 126076} \\ \underline{- 711} \quad (1 \times 711) \\ 5497 \\ \underline{- 4977} \quad (7 \times 711) \\ 5206 \\ \underline{- 4977} \quad (7 \times 711) \\ \text{Remainder --> } 229 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 711 into 1260 (= 1) Multiply 1 times 711 (= 711) Subtract 711 from 1260 (= 549) Bring down the 7</p> <p>Divide 711 into 5497 (= 7) Multiply 7 times 711 (= 4977) Subtract 4977 from 5497 (= 520) Bring down the 6</p> <p>Divide 711 into 5206 (= 7) Multiply 7 times 711 (= 4977) Subtract 4977 from 5206 (= 229) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 615 \text{ R}111 \\ 322 \overline{) 198141} \\ \underline{- 1932} \quad (6 \times 322) \\ 494 \\ \underline{- 322} \quad (1 \times 322) \\ 1721 \\ \underline{- 1610} \quad (5 \times 322) \\ \text{Remainder --> } 111 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 322 into 1981 (= 6) Multiply 6 times 322 (= 1932) Subtract 1932 from 1981 (= 49) Bring down the 4</p> <p>Divide 322 into 494 (= 1) Multiply 1 times 322 (= 322) Subtract 322 from 494 (= 172) Bring down the 1</p> <p>Divide 322 into 1721 (= 5) Multiply 5 times 322 (= 1610) Subtract 1610 from 1721 (= 111) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 4162 \text{ R}126 \\ 128 \overline{) 532862} \\ \underline{- 512} \quad (4 \times 128) \\ 208 \\ \underline{- 128} \quad (1 \times 128) \\ 806 \\ \underline{- 768} \quad (6 \times 128) \\ 382 \\ \underline{- 256} \quad (2 \times 128) \\ \text{Remainder --> } 126 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 128 into 532 (= 4) Multiply 4 times 128 (= 512) Subtract 512 from 532 (= 20) Bring down the 8</p> <p>Divide 128 into 208 (= 1) Multiply 1 times 128 (= 128) Subtract 128 from 208 (= 80) Bring down the 6</p> <p>Divide 128 into 806 (= 6) Multiply 6 times 128 (= 768) Subtract 768 from 806 (= 38) Bring down the 2</p> <p>Divide 128 into 382 (= 2) Multiply 2 times 128 (= 256) Subtract 256 from 382 (= 126) Done. No more numbers to bring down.</p>
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