

# 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)

$$4 \overline{) 1672}$$

(2)

$$8 \overline{) 3360}$$

(3)

$$2 \overline{) 3602}$$

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Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<p>(1)</p> $  \begin{array}{r}  418 \text{ R}0 \\  4 \overline{) 1672} \\  \underline{- 16} \qquad (4 \times 4) \\  07 \\  \underline{- 4} \qquad (1 \times 4) \\  32 \\  \underline{- 32} \qquad (8 \times 4) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 16 (= 4)            Multiply 4 times 4 (= 16)            Subtract 16 from 16 (= 0)            Bring down the 7</p> <p>Divide 4 into 07 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 07 (= 3)            Bring down the 2</p> <p>Divide 4 into 32 (= 8)            Multiply 8 times 4 (= 32)            Subtract 32 from 32 (= 0)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  420 \text{ R}0 \\  8 \overline{) 3360} \\  \underline{- 32} \qquad (4 \times 8) \\  16 \\  \underline{- 16} \qquad (2 \times 8) \\  00 \\  \underline{- 0} \qquad (0 \times 8) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 33 (= 4)            Multiply 4 times 8 (= 32)            Subtract 32 from 33 (= 1)            Bring down the 6</p> <p>Divide 8 into 16 (= 2)            Multiply 2 times 8 (= 16)            Subtract 16 from 16 (= 0)            Bring down the 0</p> <p>Divide 8 into 00 (= 0)            Multiply 0 times 8 (= 0)            Subtract 0 from 00 (= 0)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  1801 \text{ R}0 \\  2 \overline{) 3602} \\  \underline{- 2} \qquad (1 \times 2) \\  16 \\  \underline{- 16} \qquad (8 \times 2) \\  00 \\  \underline{- 0} \qquad (0 \times 2) \\  02 \\  \underline{- 2} \qquad (1 \times 2) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 3 (= 1)            Multiply 1 times 2 (= 2)            Subtract 2 from 3 (= 1)            Bring down the 6</p> <p>Divide 2 into 16 (= 8)            Multiply 8 times 2 (= 16)            Subtract 16 from 16 (= 0)            Bring down the 0</p> <p>Divide 2 into 00 (= 0)            Multiply 0 times 2 (= 0)            Subtract 0 from 00 (= 0)            Bring down the 2</p> <p>Divide 2 into 02 (= 1)            Multiply 1 times 2 (= 2)            Subtract 2 from 02 (= 0)            Done. No more numbers to bring down.</p>
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