

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)

$$40 \overline{) 2320}$$

(2)

$$79 \overline{) 2589}$$

(3)

$$92 \overline{) 8306}$$

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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} 58 \text{ R}0 \\ 40 \overline{) 2320} \\ \underline{- 200} \quad (5 \times 40) \\ 320 \\ \underline{- 320} \quad (8 \times 40) \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 40 into 232 (= 5) Multiply 5 times 40 (= 200) Subtract 200 from 232 (= 32) Bring down the 0</p> <p>Divide 40 into 320 (= 8) Multiply 8 times 40 (= 320) Subtract 320 from 320 (= 0) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 32 \text{ R}61 \\ 79 \overline{) 2589} \\ \underline{- 237} \quad (3 \times 79) \\ 219 \\ \underline{- 158} \quad (2 \times 79) \\ \text{Remainder --> } 61 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 79 into 258 (= 3) Multiply 3 times 79 (= 237) Subtract 237 from 258 (= 21) Bring down the 9</p> <p>Divide 79 into 219 (= 2) Multiply 2 times 79 (= 158) Subtract 158 from 219 (= 61) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 90 \text{ R}26 \\ 92 \overline{) 8306} \\ \underline{- 828} \quad (9 \times 92) \\ 26 \\ \underline{- 0} \quad (0 \times 92) \\ \text{Remainder --> } 26 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 92 into 830 (= 9) Multiply 9 times 92 (= 828) Subtract 828 from 830 (= 2) Bring down the 6</p> <p>Divide 92 into 26 (= 0) Multiply 0 times 92 (= 0) Subtract 0 from 26 (= 26) Done. No more numbers to bring down.</p>
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