

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)

$$68 \overline{) 904528}$$

(2)

$$97 \overline{) 411539}$$

(3)

$$38 \overline{) 313866}$$

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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} 13301 \text{ R}60 \\ 68 \overline{) 904528} \\ \underline{- 68} \qquad (1 \times 68) \\ 224 \\ \underline{- 204} \qquad (3 \times 68) \\ 205 \\ \underline{- 204} \qquad (3 \times 68) \\ 12 \\ \underline{- 0} \qquad (0 \times 68) \\ 128 \\ \underline{- 68} \qquad (1 \times 68) \\ \text{Remainder -->} \quad 60 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 68 into 90 (= 1) Multiply 1 times 68 (= 68) Subtract 68 from 90 (= 22) Bring down the 4</p> <p>Divide 68 into 224 (= 3) Multiply 3 times 68 (= 204) Subtract 204 from 224 (= 20) Bring down the 5</p> <p>Divide 68 into 205 (= 3) Multiply 3 times 68 (= 204) Subtract 204 from 205 (= 1) Bring down the 2</p> <p>Divide 68 into 12 (= 0) Multiply 0 times 68 (= 0) Subtract 0 from 12 (= 12) Bring down the 8</p> <p>Divide 68 into 128 (= 1) Multiply 1 times 68 (= 68) Subtract 68 from 128 (= 60) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 4242 \text{ R}65 \\ 97 \overline{) 411539} \\ \underline{- 388} \qquad (4 \times 97) \\ 235 \\ \underline{- 194} \qquad (2 \times 97) \\ 413 \\ \underline{- 388} \qquad (4 \times 97) \\ 259 \\ \underline{- 194} \qquad (2 \times 97) \\ \text{Remainder -->} \quad 65 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 97 into 411 (= 4) Multiply 4 times 97 (= 388) Subtract 388 from 411 (= 23) Bring down the 5</p> <p>Divide 97 into 235 (= 2) Multiply 2 times 97 (= 194) Subtract 194 from 235 (= 41) Bring down the 3</p> <p>Divide 97 into 413 (= 4) Multiply 4 times 97 (= 388) Subtract 388 from 413 (= 25) Bring down the 9</p> <p>Divide 97 into 259 (= 2) Multiply 2 times 97 (= 194) Subtract 194 from 259 (= 65) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 8259 \text{ R}24 \\ 38 \overline{) 313866} \\ \underline{- 304} \qquad (8 \times 38) \\ 98 \\ \underline{- 76} \qquad (2 \times 38) \\ 226 \\ \underline{- 190} \qquad (5 \times 38) \\ 366 \\ \underline{- 342} \qquad (9 \times 38) \\ \text{Remainder -->} \quad 24 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 38 into 313 (= 8) Multiply 8 times 38 (= 304) Subtract 304 from 313 (= 9) Bring down the 8</p> <p>Divide 38 into 98 (= 2) Multiply 2 times 38 (= 76) Subtract 76 from 98 (= 22) Bring down the 6</p> <p>Divide 38 into 226 (= 5) Multiply 5 times 38 (= 190) Subtract 190 from 226 (= 36) Bring down the 6</p> <p>Divide 38 into 366 (= 9) Multiply 9 times 38 (= 342) Subtract 342 from 366 (= 24) Done. No more numbers to bring down.</p>
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