

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)

$$69 \overline{)738988}$$

(2)

$$13 \overline{)221401}$$

(3)

$$34 \overline{)846119}$$

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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} 10709 \text{ R}67 \\ 69 \overline{) 738988} \\ \underline{- 69} \qquad (1 \times 69) \\ 48 \\ \underline{- 0} \qquad (0 \times 69) \\ 489 \\ \underline{- 483} \qquad (7 \times 69) \\ 68 \\ \underline{- 0} \qquad (0 \times 69) \\ 688 \\ \underline{- 621} \qquad (9 \times 69) \\ 67 \end{array} $ <p>Remainder --> 67</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 69 into 73 (= 1) Multiply 1 times 69 (= 69) Subtract 69 from 73 (= 4) Bring down the 8</p> <p>Divide 69 into 48 (= 0) Multiply 0 times 69 (= 0) Subtract 0 from 48 (= 48) Bring down the 9</p> <p>Divide 69 into 489 (= 7) Multiply 7 times 69 (= 483) Subtract 483 from 489 (= 6) Bring down the 8</p> <p>Divide 69 into 68 (= 0) Multiply 0 times 69 (= 0) Subtract 0 from 68 (= 68) Bring down the 8</p> <p>Divide 69 into 688 (= 9) Multiply 9 times 69 (= 621) Subtract 621 from 688 (= 67) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 17030 \text{ R}11 \\ 13 \overline{) 221401} \\ \underline{- 13} \qquad (1 \times 13) \\ 91 \\ \underline{- 91} \qquad (7 \times 13) \\ 04 \\ \underline{- 0} \qquad (0 \times 13) \\ 40 \\ \underline{- 39} \qquad (3 \times 13) \\ 11 \\ \underline{- 0} \qquad (0 \times 13) \\ 11 \end{array} $ <p>Remainder --> 11</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 13 into 22 (= 1) Multiply 1 times 13 (= 13) Subtract 13 from 22 (= 9) Bring down the 1</p> <p>Divide 13 into 91 (= 7) Multiply 7 times 13 (= 91) Subtract 91 from 91 (= 0) Bring down the 4</p> <p>Divide 13 into 04 (= 0) Multiply 0 times 13 (= 0) Subtract 0 from 04 (= 4) Bring down the 0</p> <p>Divide 13 into 40 (= 3) Multiply 3 times 13 (= 39) Subtract 39 from 40 (= 1) Bring down the 1</p> <p>Divide 13 into 11 (= 0) Multiply 0 times 13 (= 0) Subtract 0 from 11 (= 11) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 24885 \text{ R}29 \\ 34 \overline{) 846119} \\ \underline{- 68} \qquad (2 \times 34) \\ 166 \\ \underline{- 136} \qquad (4 \times 34) \\ 301 \\ \underline{- 272} \qquad (8 \times 34) \\ 291 \\ \underline{- 272} \qquad (8 \times 34) \\ 199 \\ \underline{- 170} \qquad (5 \times 34) \\ 29 \end{array} $ <p>Remainder --> 29</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 34 into 84 (= 2) Multiply 2 times 34 (= 68) Subtract 68 from 84 (= 16) Bring down the 6</p> <p>Divide 34 into 166 (= 4) Multiply 4 times 34 (= 136) Subtract 136 from 166 (= 30) Bring down the 1</p> <p>Divide 34 into 301 (= 8) Multiply 8 times 34 (= 272) Subtract 272 from 301 (= 29) Bring down the 1</p> <p>Divide 34 into 291 (= 8) Multiply 8 times 34 (= 272) Subtract 272 from 291 (= 19) Bring down the 9</p> <p>Divide 34 into 199 (= 5) Multiply 5 times 34 (= 170) Subtract 170 from 199 (= 29) Done. No more numbers to bring down.</p>
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