

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)

$$288 \overline{) 1394033}$$

(2)

$$607 \overline{) 9571095}$$

(3)

$$733 \overline{) 8815690}$$

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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} 4840 \text{ R}113 \\ 288 \overline{) 1394033} \\ \underline{- 1152} \quad (4 \times 288) \\ 2420 \\ \underline{- 2304} \quad (8 \times 288) \\ 1163 \\ \underline{- 1152} \quad (4 \times 288) \\ 113 \\ \underline{- 0} \quad (0 \times 288) \\ \text{Remainder -->} \quad 113 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 288 into 1394 (= 4) Multiply 4 times 288 (= 1152) Subtract 1152 from 1394 (= 242) Bring down the 0</p> <p>Divide 288 into 2420 (= 8) Multiply 8 times 288 (= 2304) Subtract 2304 from 2420 (= 116) Bring down the 3</p> <p>Divide 288 into 1163 (= 4) Multiply 4 times 288 (= 1152) Subtract 1152 from 1163 (= 11) Bring down the 3</p> <p>Divide 288 into 113 (= 0) Multiply 0 times 288 (= 0) Subtract 0 from 113 (= 113) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 15767 \text{ R}526 \\ 607 \overline{) 9571095} \\ \underline{- 607} \quad (1 \times 607) \\ 3501 \\ \underline{- 3035} \quad (5 \times 607) \\ 4660 \\ \underline{- 4249} \quad (7 \times 607) \\ 4119 \\ \underline{- 3642} \quad (6 \times 607) \\ 4775 \\ \underline{- 4249} \quad (7 \times 607) \\ \text{Remainder -->} \quad 526 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 607 into 957 (= 1) Multiply 1 times 607 (= 607) Subtract 607 from 957 (= 350) Bring down the 1</p> <p>Divide 607 into 3501 (= 5) Multiply 5 times 607 (= 3035) Subtract 3035 from 3501 (= 466) Bring down the 0</p> <p>Divide 607 into 4660 (= 7) Multiply 7 times 607 (= 4249) Subtract 4249 from 4660 (= 411) Bring down the 9</p> <p>Divide 607 into 4119 (= 6) Multiply 6 times 607 (= 3642) Subtract 3642 from 4119 (= 477) Bring down the 5</p> <p>Divide 607 into 4775 (= 7) Multiply 7 times 607 (= 4249) Subtract 4249 from 4775 (= 526) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 12026 \text{ R}632 \\ 733 \overline{) 8815690} \\ \underline{- 733} \quad (1 \times 733) \\ 1485 \\ \underline{- 1466} \quad (2 \times 733) \\ 196 \\ \underline{- 0} \quad (0 \times 733) \\ 1969 \\ \underline{- 1466} \quad (2 \times 733) \\ 5030 \\ \underline{- 4398} \quad (6 \times 733) \\ \text{Remainder -->} \quad 632 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 733 into 881 (= 1) Multiply 1 times 733 (= 733) Subtract 733 from 881 (= 148) Bring down the 5</p> <p>Divide 733 into 1485 (= 2) Multiply 2 times 733 (= 1466) Subtract 1466 from 1485 (= 19) Bring down the 6</p> <p>Divide 733 into 196 (= 0) Multiply 0 times 733 (= 0) Subtract 0 from 196 (= 196) Bring down the 9</p> <p>Divide 733 into 1969 (= 2) Multiply 2 times 733 (= 1466) Subtract 1466 from 1969 (= 503) Bring down the 0</p> <p>Divide 733 into 5030 (= 6) Multiply 6 times 733 (= 4398) Subtract 4398 from 5030 (= 632) Done. No more numbers to bring down.</p>
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