

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)

$$184 \overline{) 614642}$$

(2)

$$643 \overline{) 903147}$$

(3)

$$995 \overline{) 488093}$$

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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} 3340 \text{ R}82 \\ 184 \overline{) 614642} \\ \underline{- 552} \quad (3 \times 184) \\ 626 \\ \underline{- 552} \quad (3 \times 184) \\ 744 \\ \underline{- 736} \quad (4 \times 184) \\ 82 \\ \underline{- 0} \quad (0 \times 184) \\ \text{Remainder -->} \quad 82 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 184 into 614 (= 3) Multiply 3 times 184 (= 552) Subtract 552 from 614 (= 62) Bring down the 6</p> <p>Divide 184 into 626 (= 3) Multiply 3 times 184 (= 552) Subtract 552 from 626 (= 74) Bring down the 4</p> <p>Divide 184 into 744 (= 4) Multiply 4 times 184 (= 736) Subtract 736 from 744 (= 8) Bring down the 2</p> <p>Divide 184 into 82 (= 0) Multiply 0 times 184 (= 0) Subtract 0 from 82 (= 82) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1404 \text{ R}375 \\ 643 \overline{) 903147} \\ \underline{- 643} \quad (1 \times 643) \\ 2601 \\ \underline{- 2572} \quad (4 \times 643) \\ 294 \\ \underline{- 0} \quad (0 \times 643) \\ 2947 \\ \underline{- 2572} \quad (4 \times 643) \\ \text{Remainder -->} \quad 375 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 643 into 903 (= 1) Multiply 1 times 643 (= 643) Subtract 643 from 903 (= 260) Bring down the 1</p> <p>Divide 643 into 2601 (= 4) Multiply 4 times 643 (= 2572) Subtract 2572 from 2601 (= 29) Bring down the 4</p> <p>Divide 643 into 294 (= 0) Multiply 0 times 643 (= 0) Subtract 0 from 294 (= 294) Bring down the 7</p> <p>Divide 643 into 2947 (= 4) Multiply 4 times 643 (= 2572) Subtract 2572 from 2947 (= 375) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 490 \text{ R}543 \\ 995 \overline{) 488093} \\ \underline{- 3980} \quad (4 \times 995) \\ 9009 \\ \underline{- 8955} \quad (9 \times 995) \\ 543 \\ \underline{- 0} \quad (0 \times 995) \\ \text{Remainder -->} \quad 543 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 995 into 4880 (= 4) Multiply 4 times 995 (= 3980) Subtract 3980 from 4880 (= 900) Bring down the 9</p> <p>Divide 995 into 9009 (= 9) Multiply 9 times 995 (= 8955) Subtract 8955 from 9009 (= 54) Bring down the 3</p> <p>Divide 995 into 543 (= 0) Multiply 0 times 995 (= 0) Subtract 0 from 543 (= 543) Done. No more numbers to bring down.</p>
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