

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)

$$722 \overline{) 5594762}$$

(2)

$$154 \overline{) 7912713}$$

(3)

$$431 \overline{) 6164210}$$

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Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<p>(1)</p> $ \begin{array}{r} 7748 \text{ R}706 \\ 722 \overline{) 5594762} \\ \underline{- 5054} \quad (7 \times 722) \\ 5407 \\ \underline{- 5054} \quad (7 \times 722) \\ 3536 \\ \underline{- 2888} \quad (4 \times 722) \\ 6482 \\ \underline{- 5776} \quad (8 \times 722) \\ \text{Remainder --> } 706 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 722 into 5594 (= 7) Multiply 7 times 722 (= 5054) Subtract 5054 from 5594 (= 540) Bring down the 7</p> <p>Divide 722 into 5407 (= 7) Multiply 7 times 722 (= 5054) Subtract 5054 from 5407 (= 353) Bring down the 6</p> <p>Divide 722 into 3536 (= 4) Multiply 4 times 722 (= 2888) Subtract 2888 from 3536 (= 648) Bring down the 2</p> <p>Divide 722 into 6482 (= 8) Multiply 8 times 722 (= 5776) Subtract 5776 from 6482 (= 706) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 51381 \text{ R}39 \\ 154 \overline{) 7912713} \\ \underline{- 770} \quad (5 \times 154) \\ 212 \\ \underline{- 154} \quad (1 \times 154) \\ 587 \\ \underline{- 462} \quad (3 \times 154) \\ 1251 \\ \underline{- 1232} \quad (8 \times 154) \\ 193 \\ \underline{- 154} \quad (1 \times 154) \\ \text{Remainder --> } 39 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 154 into 791 (= 5) Multiply 5 times 154 (= 770) Subtract 770 from 791 (= 21) Bring down the 2</p> <p>Divide 154 into 212 (= 1) Multiply 1 times 154 (= 154) Subtract 154 from 212 (= 58) Bring down the 7</p> <p>Divide 154 into 587 (= 3) Multiply 3 times 154 (= 462) Subtract 462 from 587 (= 125) Bring down the 1</p> <p>Divide 154 into 1251 (= 8) Multiply 8 times 154 (= 1232) Subtract 1232 from 1251 (= 19) Bring down the 3</p> <p>Divide 154 into 193 (= 1) Multiply 1 times 154 (= 154) Subtract 154 from 193 (= 39) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 14302 \text{ R}48 \\ 431 \overline{) 6164210} \\ \underline{- 431} \quad (1 \times 431) \\ 1854 \\ \underline{- 1724} \quad (4 \times 431) \\ 1302 \\ \underline{- 1293} \quad (3 \times 431) \\ 91 \\ \underline{- 0} \quad (0 \times 431) \\ 910 \\ \underline{- 862} \quad (2 \times 431) \\ \text{Remainder --> } 48 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 431 into 616 (= 1) Multiply 1 times 431 (= 431) Subtract 431 from 616 (= 185) Bring down the 4</p> <p>Divide 431 into 1854 (= 4) Multiply 4 times 431 (= 1724) Subtract 1724 from 1854 (= 130) Bring down the 2</p> <p>Divide 431 into 1302 (= 3) Multiply 3 times 431 (= 1293) Subtract 1293 from 1302 (= 9) Bring down the 1</p> <p>Divide 431 into 91 (= 0) Multiply 0 times 431 (= 0) Subtract 0 from 91 (= 91) Bring down the 0</p> <p>Divide 431 into 910 (= 2) Multiply 2 times 431 (= 862) Subtract 862 from 910 (= 48) Done. No more numbers to bring down.</p>
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