

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) <div>2 7450503</div>	(2) <div>4 2201693</div>	(3) <div>5 5505445</div>
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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} 3725251 \text{ R1} \\ 2 \overline{) 7450503} \\ \underline{- 6} (3 \times 2) \\ 14 \\ \underline{- 14} (7 \times 2) \\ 05 \\ \underline{- 4} (2 \times 2) \\ 10 \\ \underline{- 10} (5 \times 2) \\ 05 \\ \underline{- 4} (2 \times 2) \\ 10 \\ \underline{- 10} (5 \times 2) \\ 03 \\ \underline{- 2} (1 \times 2) \\ \text{Remainder -->} 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 7 (= 3) Multiply 3 times 2 (= 6) Subtract 6 from 7 (= 1) Bring down the 4</p> <p>Divide 2 into 14 (= 7) Multiply 7 times 2 (= 14) Subtract 14 from 14 (= 0) Bring down the 5</p> <p>Divide 2 into 05 (= 2) Multiply 2 times 2 (= 4) Subtract 4 from 05 (= 1) Bring down the 0</p> <p>Divide 2 into 10 (= 5) Multiply 5 times 2 (= 10) Subtract 10 from 10 (= 0) Bring down the 5</p> <p>Divide 2 into 05 (= 2) Multiply 2 times 2 (= 4) Subtract 4 from 05 (= 1) Bring down the 0</p> <p>Divide 2 into 10 (= 5) Multiply 5 times 2 (= 10) Subtract 10 from 10 (= 0) Bring down the 3</p>	<p>(2)</p> $ \begin{array}{r} 550423 \text{ R1} \\ 4 \overline{) 2201693} \\ \underline{- 20} (5 \times 4) \\ 20 \\ \underline{- 20} (5 \times 4) \\ 01 \\ \underline{- 0} (0 \times 4) \\ 16 \\ \underline{- 16} (4 \times 4) \\ 09 \\ \underline{- 8} (2 \times 4) \\ 13 \\ \underline{- 12} (3 \times 4) \\ \text{Remainder -->} 1 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 22 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 22 (= 2) Bring down the 0</p> <p>Divide 4 into 20 (= 5) Multiply 5 times 4 (= 20) Subtract 20 from 20 (= 0) Bring down the 1</p> <p>Divide 4 into 01 (= 0) Multiply 0 times 4 (= 0) Subtract 0 from 01 (= 1) Bring down the 6</p> <p>Divide 4 into 16 (= 4) Multiply 4 times 4 (= 16) Subtract 16 from 16 (= 0) Bring down the 9</p> <p>Divide 4 into 09 (= 2) Multiply 2 times 4 (= 8) Subtract 8 from 09 (= 1) Bring down the 3</p> <p>Divide 4 into 13 (= 3) Multiply 3 times 4 (= 12) Subtract 12 from 13 (= 1) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1101089 \text{ R0} \\ 5 \overline{) 5505445} \\ \underline{- 5} (1 \times 5) \\ 05 \\ \underline{- 5} (1 \times 5) \\ 00 \\ \underline{- 0} (0 \times 5) \\ 05 \\ \underline{- 5} (1 \times 5) \\ 04 \\ \underline{- 0} (0 \times 5) \\ 44 \\ \underline{- 40} (8 \times 5) \\ 45 \\ \underline{- 45} (9 \times 5) \\ \text{Remainder -->} 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 5 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 5 (= 0) Bring down the 5</p> <p>Divide 5 into 05 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 05 (= 0) Bring down the 0</p> <p>Divide 5 into 00 (= 0) Multiply 0 times 5 (= 0) Subtract 0 from 00 (= 0) Bring down the 5</p> <p>Divide 5 into 05 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 05 (= 0) Bring down the 4</p> <p>Divide 5 into 04 (= 0) Multiply 0 times 5 (= 0) Subtract 0 from 04 (= 4) Bring down the 4</p> <p>Divide 5 into 44 (= 8) Multiply 8 times 5 (= 40) Subtract 40 from 44 (= 4) Bring down the 5</p>
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Divide 2 into 03 (= 1)
 Multiply 1 times 2 (= 2)
 Subtract 2 from 03 (= 1)
 Done. No more numbers to bring down.

Divide 5 into 45 (= 9)
 Multiply 9 times 5 (= 45)
 Subtract 45 from 45 (= 0)
 Done. No more numbers to bring down.