

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>9 6602490</div>	(2) <div>6 3178284</div>	(3) <div>5 6980002</div>
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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} 733610 \text{ R}0 \\ 9 \overline{) 6602490} \\ \underline{- 63} \qquad (7 \times 9) \\ 30 \\ \underline{- 27} \qquad (3 \times 9) \\ 32 \\ \underline{- 27} \qquad (3 \times 9) \\ 54 \\ \underline{- 54} \qquad (6 \times 9) \\ 09 \\ \underline{- 9} \qquad (1 \times 9) \\ 00 \\ \underline{- 0} \qquad (0 \times 9) \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 66 (= 7) Multiply 7 times 9 (= 63) Subtract 63 from 66 (= 3) Bring down the 0</p> <p>Divide 9 into 30 (= 3) Multiply 3 times 9 (= 27) Subtract 27 from 30 (= 3) Bring down the 2</p> <p>Divide 9 into 32 (= 3) Multiply 3 times 9 (= 27) Subtract 27 from 32 (= 5) Bring down the 4</p> <p>Divide 9 into 54 (= 6) Multiply 6 times 9 (= 54) Subtract 54 from 54 (= 0) Bring down the 9</p> <p>Divide 9 into 09 (= 1) Multiply 1 times 9 (= 9) Subtract 9 from 09 (= 0) Bring down the 0</p> <p>Divide 9 into 00 (= 0) Multiply 0 times 9 (= 0) Subtract 0 from 00 (= 0) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 529714 \text{ R}0 \\ 6 \overline{) 3178284} \\ \underline{- 30} \qquad (5 \times 6) \\ 17 \\ \underline{- 12} \qquad (2 \times 6) \\ 58 \\ \underline{- 54} \qquad (9 \times 6) \\ 42 \\ \underline{- 42} \qquad (7 \times 6) \\ 08 \\ \underline{- 6} \qquad (1 \times 6) \\ 24 \\ \underline{- 24} \qquad (4 \times 6) \\ \text{Remainder --> } 0 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 6 into 31 (= 5) Multiply 5 times 6 (= 30) Subtract 30 from 31 (= 1) Bring down the 7</p> <p>Divide 6 into 17 (= 2) Multiply 2 times 6 (= 12) Subtract 12 from 17 (= 5) Bring down the 8</p> <p>Divide 6 into 58 (= 9) Multiply 9 times 6 (= 54) Subtract 54 from 58 (= 4) Bring down the 2</p> <p>Divide 6 into 42 (= 7) Multiply 7 times 6 (= 42) Subtract 42 from 42 (= 0) Bring down the 8</p> <p>Divide 6 into 08 (= 1) Multiply 1 times 6 (= 6) Subtract 6 from 08 (= 2) Bring down the 4</p> <p>Divide 6 into 24 (= 4) Multiply 4 times 6 (= 24) Subtract 24 from 24 (= 0) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1396000 \text{ R}2 \\ 5 \overline{) 6980002} \\ \underline{- 5} \qquad (1 \times 5) \\ 19 \\ \underline{- 15} \qquad (3 \times 5) \\ 48 \\ \underline{- 45} \qquad (9 \times 5) \\ 30 \\ \underline{- 30} \qquad (6 \times 5) \\ 00 \\ \underline{- 0} \qquad (0 \times 5) \\ 00 \\ \underline{- 0} \qquad (0 \times 5) \\ 02 \\ \underline{- 0} \qquad (0 \times 5) \\ \text{Remainder --> } 2 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 6 (= 1) Multiply 1 times 5 (= 5) Subtract 5 from 6 (= 1) Bring down the 9</p> <p>Divide 5 into 19 (= 3) Multiply 3 times 5 (= 15) Subtract 15 from 19 (= 4) Bring down the 8</p> <p>Divide 5 into 48 (= 9) Multiply 9 times 5 (= 45) Subtract 45 from 48 (= 3) Bring down the 0</p> <p>Divide 5 into 30 (= 6) Multiply 6 times 5 (= 30) Subtract 30 from 30 (= 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 0</p> <p>Divide 5 into 00 (= 0) Multiply 0 times 5 (= 0) Subtract 0 from 00 (= 0) Bring down the 2</p>
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Divide 5 into 02 (= 0)
 Multiply 0 times 5 (= 0)
 Subtract 0 from 02 (= 2)
 Done. No more numbers to bring down.