

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>82 8385213</div>	(2) <div>80 8390165</div>	(3) <div>20 4377396</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} 102258 \text{ R}57 \\ 82 \overline{) 8385213} \\ \underline{- 82} (1 \times 82) \\ 18 \\ \underline{- 0} (0 \times 82) \\ 185 \\ \underline{- 164} (2 \times 82) \\ 212 \\ \underline{- 164} (2 \times 82) \\ 481 \\ \underline{- 410} (5 \times 82) \\ 713 \\ \underline{- 656} (8 \times 82) \\ \text{Remainder -->} 57 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 82 into 83 (= 1) Multiply 1 times 82 (= 82) Subtract 82 from 83 (= 1) Bring down the 8</p> <p>Divide 82 into 18 (= 0) Multiply 0 times 82 (= 0) Subtract 0 from 18 (= 18) Bring down the 5</p> <p>Divide 82 into 185 (= 2) Multiply 2 times 82 (= 164) Subtract 164 from 185 (= 21) Bring down the 2</p> <p>Divide 82 into 212 (= 2) Multiply 2 times 82 (= 164) Subtract 164 from 212 (= 48) Bring down the 1</p> <p>Divide 82 into 481 (= 5) Multiply 5 times 82 (= 410) Subtract 410 from 481 (= 71) Bring down the 3</p> <p>Divide 82 into 713 (= 8) Multiply 8 times 82 (= 656) Subtract 656 from 713 (= 57) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 104877 \text{ R}5 \\ 80 \overline{) 8390165} \\ \underline{- 80} (1 \times 80) \\ 39 \\ \underline{- 0} (0 \times 80) \\ 390 \\ \underline{- 320} (4 \times 80) \\ 701 \\ \underline{- 640} (8 \times 80) \\ 616 \\ \underline{- 560} (7 \times 80) \\ 565 \\ \underline{- 560} (7 \times 80) \\ \text{Remainder -->} 5 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 80 into 83 (= 1) Multiply 1 times 80 (= 80) Subtract 80 from 83 (= 3) Bring down the 9</p> <p>Divide 80 into 39 (= 0) Multiply 0 times 80 (= 0) Subtract 0 from 39 (= 39) Bring down the 0</p> <p>Divide 80 into 390 (= 4) Multiply 4 times 80 (= 320) Subtract 320 from 390 (= 70) Bring down the 1</p> <p>Divide 80 into 701 (= 8) Multiply 8 times 80 (= 640) Subtract 640 from 701 (= 61) Bring down the 6</p> <p>Divide 80 into 616 (= 7) Multiply 7 times 80 (= 560) Subtract 560 from 616 (= 56) Bring down the 5</p> <p>Divide 80 into 565 (= 7) Multiply 7 times 80 (= 560) Subtract 560 from 565 (= 5) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 218869 \text{ R}16 \\ 20 \overline{) 4377396} \\ \underline{- 40} (2 \times 20) \\ 37 \\ \underline{- 20} (1 \times 20) \\ 177 \\ \underline{- 160} (8 \times 20) \\ 173 \\ \underline{- 160} (8 \times 20) \\ 139 \\ \underline{- 120} (6 \times 20) \\ 196 \\ \underline{- 180} (9 \times 20) \\ \text{Remainder -->} 16 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 20 into 43 (= 2) Multiply 2 times 20 (= 40) Subtract 40 from 43 (= 3) Bring down the 7</p> <p>Divide 20 into 37 (= 1) Multiply 1 times 20 (= 20) Subtract 20 from 37 (= 17) Bring down the 7</p> <p>Divide 20 into 177 (= 8) Multiply 8 times 20 (= 160) Subtract 160 from 177 (= 17) Bring down the 3</p> <p>Divide 20 into 173 (= 8) Multiply 8 times 20 (= 160) Subtract 160 from 173 (= 13) Bring down the 9</p> <p>Divide 20 into 139 (= 6) Multiply 6 times 20 (= 120) Subtract 120 from 139 (= 19) Bring down the 6</p> <p>Divide 20 into 196 (= 9) Multiply 9 times 20 (= 180) Subtract 180 from 196 (= 16) Done. No more numbers to bring down.</p>
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