

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)

$$77 \overline{)41698}$$

(2)

$$83 \overline{)38304}$$

(3)

$$54 \overline{)93158}$$

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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} 541 \text{ R}41 \\ 77 \overline{)41698} \\ \underline{-385} \\ 319 \\ \underline{-308} \\ 118 \\ \underline{-77} \\ 41 \end{array} $ <p>Remainder --> 41</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 77 into 416 (= 5) Multiply 5 times 77 (= 385) Subtract 385 from 416 (= 31) Bring down the 9</p> <p>Divide 77 into 319 (= 4) Multiply 4 times 77 (= 308) Subtract 308 from 319 (= 11) Bring down the 8</p> <p>Divide 77 into 118 (= 1) Multiply 1 times 77 (= 77) Subtract 77 from 118 (= 41) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 461 \text{ R}41 \\ 83 \overline{)38304} \\ \underline{-332} \\ 510 \\ \underline{-498} \\ 124 \\ \underline{-83} \\ 41 \end{array} $ <p>Remainder --> 41</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 83 into 383 (= 4) Multiply 4 times 83 (= 332) Subtract 332 from 383 (= 51) Bring down the 0</p> <p>Divide 83 into 510 (= 6) Multiply 6 times 83 (= 498) Subtract 498 from 510 (= 12) Bring down the 4</p> <p>Divide 83 into 124 (= 1) Multiply 1 times 83 (= 83) Subtract 83 from 124 (= 41) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1725 \text{ R}8 \\ 54 \overline{)93158} \\ \underline{-54} \\ 391 \\ \underline{-378} \\ 135 \\ \underline{-108} \\ 278 \\ \underline{-270} \\ 8 \end{array} $ <p>Remainder --> 8</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 54 into 93 (= 1) Multiply 1 times 54 (= 54) Subtract 54 from 93 (= 39) Bring down the 1</p> <p>Divide 54 into 391 (= 7) Multiply 7 times 54 (= 378) Subtract 378 from 391 (= 13) Bring down the 5</p> <p>Divide 54 into 135 (= 2) Multiply 2 times 54 (= 108) Subtract 108 from 135 (= 27) Bring down the 8</p> <p>Divide 54 into 278 (= 5) Multiply 5 times 54 (= 270) Subtract 270 from 278 (= 8) Done. No more numbers to bring down.</p>
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