

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)

$$488 \overline{) 22177}$$

(2)

$$254 \overline{) 41746}$$

(3)

$$537 \overline{) 81705}$$

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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} 45 \text{ R}217 \\ 488 \overline{) 22177} \\ \underline{- 1952} \quad (4 \times 488) \\ 2657 \\ \underline{- 2440} \quad (5 \times 488) \\ \text{Remainder --> } 217 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 488 into 2217 (= 4) Multiply 4 times 488 (= 1952) Subtract 1952 from 2217 (= 265) Bring down the 7</p> <p>Divide 488 into 2657 (= 5) Multiply 5 times 488 (= 2440) Subtract 2440 from 2657 (= 217) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 164 \text{ R}90 \\ 254 \overline{) 41746} \\ \underline{- 254} \quad (1 \times 254) \\ 1634 \\ \underline{- 1524} \quad (6 \times 254) \\ 1106 \\ \underline{- 1016} \quad (4 \times 254) \\ \text{Remainder --> } 90 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 254 into 417 (= 1) Multiply 1 times 254 (= 254) Subtract 254 from 417 (= 163) Bring down the 4</p> <p>Divide 254 into 1634 (= 6) Multiply 6 times 254 (= 1524) Subtract 1524 from 1634 (= 110) Bring down the 6</p> <p>Divide 254 into 1106 (= 4) Multiply 4 times 254 (= 1016) Subtract 1016 from 1106 (= 90) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 152 \text{ R}81 \\ 537 \overline{) 81705} \\ \underline{- 537} \quad (1 \times 537) \\ 2800 \\ \underline{- 2685} \quad (5 \times 537) \\ 1155 \\ \underline{- 1074} \quad (2 \times 537) \\ \text{Remainder --> } 81 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 537 into 817 (= 1) Multiply 1 times 537 (= 537) Subtract 537 from 817 (= 280) Bring down the 0</p> <p>Divide 537 into 2800 (= 5) Multiply 5 times 537 (= 2685) Subtract 2685 from 2800 (= 115) Bring down the 5</p> <p>Divide 537 into 1155 (= 2) Multiply 2 times 537 (= 1074) Subtract 1074 from 1155 (= 81) Done. No more numbers to bring down.</p>
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