

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)

$$99 \overline{) 88138}$$

(2)

$$87 \overline{) 88312}$$

(3)

$$86 \overline{) 83132}$$

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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} 890 \text{ R}28 \\ 99 \overline{) 88138} \\ \underline{- 792} \quad (8 \times 99) \\ 893 \\ \underline{- 891} \quad (9 \times 99) \\ 28 \\ \underline{- 0} \quad (0 \times 99) \\ \text{Remainder --> } 28 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 99 into 881 (= 8) Multiply 8 times 99 (= 792) Subtract 792 from 881 (= 89) Bring down the 3</p> <p>Divide 99 into 893 (= 9) Multiply 9 times 99 (= 891) Subtract 891 from 893 (= 2) Bring down the 8</p> <p>Divide 99 into 28 (= 0) Multiply 0 times 99 (= 0) Subtract 0 from 28 (= 28) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 1015 \text{ R}7 \\ 87 \overline{) 88312} \\ \underline{- 87} \quad (1 \times 87) \\ 13 \\ \underline{- 0} \quad (0 \times 87) \\ 131 \\ \underline{- 87} \quad (1 \times 87) \\ 442 \\ \underline{- 435} \quad (5 \times 87) \\ \text{Remainder --> } 7 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 87 into 88 (= 1) Multiply 1 times 87 (= 87) Subtract 87 from 88 (= 1) Bring down the 3</p> <p>Divide 87 into 13 (= 0) Multiply 0 times 87 (= 0) Subtract 0 from 13 (= 13) Bring down the 1</p> <p>Divide 87 into 131 (= 1) Multiply 1 times 87 (= 87) Subtract 87 from 131 (= 44) Bring down the 2</p> <p>Divide 87 into 442 (= 5) Multiply 5 times 87 (= 435) Subtract 435 from 442 (= 7) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 966 \text{ R}56 \\ 86 \overline{) 83132} \\ \underline{- 774} \quad (9 \times 86) \\ 573 \\ \underline{- 516} \quad (6 \times 86) \\ 572 \\ \underline{- 516} \quad (6 \times 86) \\ \text{Remainder --> } 56 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 86 into 831 (= 9) Multiply 9 times 86 (= 774) Subtract 774 from 831 (= 57) Bring down the 3</p> <p>Divide 86 into 573 (= 6) Multiply 6 times 86 (= 516) Subtract 516 from 573 (= 57) Bring down the 2</p> <p>Divide 86 into 572 (= 6) Multiply 6 times 86 (= 516) Subtract 516 from 572 (= 56) Done. No more numbers to bring down.</p>
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