

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)

$$61 \overline{) 29165}$$

(2)

$$86 \overline{) 75686}$$

(3)

$$22 \overline{) 43490}$$

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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} 478 \text{ R}7 \\ 61 \overline{) 29165} \\ \underline{- 244} \quad (4 \times 61) \\ 476 \\ \underline{- 427} \quad (7 \times 61) \\ 495 \\ \underline{- 488} \quad (8 \times 61) \\ \text{Remainder -->} \quad 7 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 61 into 291 (= 4) Multiply 4 times 61 (= 244) Subtract 244 from 291 (= 47) Bring down the 6</p> <p>Divide 61 into 476 (= 7) Multiply 7 times 61 (= 427) Subtract 427 from 476 (= 49) Bring down the 5</p> <p>Divide 61 into 495 (= 8) Multiply 8 times 61 (= 488) Subtract 488 from 495 (= 7) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 880 \text{ R}6 \\ 86 \overline{) 75686} \\ \underline{- 688} \quad (8 \times 86) \\ 688 \\ \underline{- 688} \quad (8 \times 86) \\ 06 \\ \underline{- 0} \quad (0 \times 86) \\ \text{Remainder -->} \quad 6 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 86 into 756 (= 8) Multiply 8 times 86 (= 688) Subtract 688 from 756 (= 68) Bring down the 8</p> <p>Divide 86 into 688 (= 8) Multiply 8 times 86 (= 688) Subtract 688 from 688 (= 0) Bring down the 6</p> <p>Divide 86 into 06 (= 0) Multiply 0 times 86 (= 0) Subtract 0 from 06 (= 6) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 1976 \text{ R}18 \\ 22 \overline{) 43490} \\ \underline{- 22} \quad (1 \times 22) \\ 214 \\ \underline{- 198} \quad (9 \times 22) \\ 169 \\ \underline{- 154} \quad (7 \times 22) \\ 150 \\ \underline{- 132} \quad (6 \times 22) \\ \text{Remainder -->} \quad 18 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 22 into 43 (= 1) Multiply 1 times 22 (= 22) Subtract 22 from 43 (= 21) Bring down the 4</p> <p>Divide 22 into 214 (= 9) Multiply 9 times 22 (= 198) Subtract 198 from 214 (= 16) Bring down the 9</p> <p>Divide 22 into 169 (= 7) Multiply 7 times 22 (= 154) Subtract 154 from 169 (= 15) Bring down the 0</p> <p>Divide 22 into 150 (= 6) Multiply 6 times 22 (= 132) Subtract 132 from 150 (= 18) Done. No more numbers to bring down.</p>
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