

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)

$$509 \overline{)758330}$$

(2)

$$658 \overline{)198073}$$

(3)

$$343 \overline{)986448}$$

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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} 1489 \text{ R}429 \\ 509 \overline{) 758330} \\ \underline{- 509} \qquad (1 \times 509) \\ 2493 \\ \underline{- 2036} \qquad (4 \times 509) \\ 4573 \\ \underline{- 4072} \qquad (8 \times 509) \\ 5010 \\ \underline{- 4581} \qquad (9 \times 509) \\ \text{Remainder -->} \quad 429 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 509 into 758 (= 1) Multiply 1 times 509 (= 509) Subtract 509 from 758 (= 249) Bring down the 3</p> <p>Divide 509 into 2493 (= 4) Multiply 4 times 509 (= 2036) Subtract 2036 from 2493 (= 457) Bring down the 3</p> <p>Divide 509 into 4573 (= 8) Multiply 8 times 509 (= 4072) Subtract 4072 from 4573 (= 501) Bring down the 0</p> <p>Divide 509 into 5010 (= 9) Multiply 9 times 509 (= 4581) Subtract 4581 from 5010 (= 429) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 301 \text{ R}15 \\ 658 \overline{) 198073} \\ \underline{- 1974} \qquad (3 \times 658) \\ 67 \\ \underline{- 0} \qquad (0 \times 658) \\ 673 \\ \underline{- 658} \qquad (1 \times 658) \\ \text{Remainder -->} \quad 15 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 658 into 1980 (= 3) Multiply 3 times 658 (= 1974) Subtract 1974 from 1980 (= 6) Bring down the 7</p> <p>Divide 658 into 67 (= 0) Multiply 0 times 658 (= 0) Subtract 0 from 67 (= 67) Bring down the 3</p> <p>Divide 658 into 673 (= 1) Multiply 1 times 658 (= 658) Subtract 658 from 673 (= 15) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 2875 \text{ R}323 \\ 343 \overline{) 986448} \\ \underline{- 686} \qquad (2 \times 343) \\ 3004 \\ \underline{- 2744} \qquad (8 \times 343) \\ 2604 \\ \underline{- 2401} \qquad (7 \times 343) \\ 2038 \\ \underline{- 1715} \qquad (5 \times 343) \\ \text{Remainder -->} \quad 323 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 343 into 986 (= 2) Multiply 2 times 343 (= 686) Subtract 686 from 986 (= 300) Bring down the 4</p> <p>Divide 343 into 3004 (= 8) Multiply 8 times 343 (= 2744) Subtract 2744 from 3004 (= 260) Bring down the 4</p> <p>Divide 343 into 2604 (= 7) Multiply 7 times 343 (= 2401) Subtract 2401 from 2604 (= 203) Bring down the 8</p> <p>Divide 343 into 2038 (= 5) Multiply 5 times 343 (= 1715) Subtract 1715 from 2038 (= 323) Done. No more numbers to bring down.</p>
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