

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)

$$980 \overline{) 8578808}$$

(2)

$$452 \overline{) 5455898}$$

(3)

$$440 \overline{) 1853880}$$

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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} 8753 \text{ R}868 \\ 980 \overline{) 8578808} \\ \underline{- 7840} \quad (8 \times 980) \\ 7388 \\ \underline{- 6860} \quad (7 \times 980) \\ 5280 \\ \underline{- 4900} \quad (5 \times 980) \\ 3808 \\ \underline{- 2940} \quad (3 \times 980) \\ \text{Remainder -->} \quad 868 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 980 into 8578 (= 8) Multiply 8 times 980 (= 7840) Subtract 7840 from 8578 (= 738) Bring down the 8</p> <p>Divide 980 into 7388 (= 7) Multiply 7 times 980 (= 6860) Subtract 6860 from 7388 (= 528) Bring down the 0</p> <p>Divide 980 into 5280 (= 5) Multiply 5 times 980 (= 4900) Subtract 4900 from 5280 (= 380) Bring down the 8</p> <p>Divide 980 into 3808 (= 3) Multiply 3 times 980 (= 2940) Subtract 2940 from 3808 (= 868) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 12070 \text{ R}258 \\ 452 \overline{) 5455898} \\ \underline{- 452} \quad (1 \times 452) \\ 935 \\ \underline{- 904} \quad (2 \times 452) \\ 318 \\ \underline{- 0} \quad (0 \times 452) \\ 3189 \\ \underline{- 3164} \quad (7 \times 452) \\ 258 \\ \underline{- 0} \quad (0 \times 452) \\ \text{Remainder -->} \quad 258 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 452 into 545 (= 1) Multiply 1 times 452 (= 452) Subtract 452 from 545 (= 93) Bring down the 5</p> <p>Divide 452 into 935 (= 2) Multiply 2 times 452 (= 904) Subtract 904 from 935 (= 31) Bring down the 8</p> <p>Divide 452 into 318 (= 0) Multiply 0 times 452 (= 0) Subtract 0 from 318 (= 318) Bring down the 9</p> <p>Divide 452 into 3189 (= 7) Multiply 7 times 452 (= 3164) Subtract 3164 from 3189 (= 25) Bring down the 8</p> <p>Divide 452 into 258 (= 0) Multiply 0 times 452 (= 0) Subtract 0 from 258 (= 258) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 4213 \text{ R}160 \\ 440 \overline{) 1853880} \\ \underline{- 1760} \quad (4 \times 440) \\ 938 \\ \underline{- 880} \quad (2 \times 440) \\ 588 \\ \underline{- 440} \quad (1 \times 440) \\ 1480 \\ \underline{- 1320} \quad (3 \times 440) \\ \text{Remainder -->} \quad 160 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 440 into 1853 (= 4) Multiply 4 times 440 (= 1760) Subtract 1760 from 1853 (= 93) Bring down the 8</p> <p>Divide 440 into 938 (= 2) Multiply 2 times 440 (= 880) Subtract 880 from 938 (= 58) Bring down the 8</p> <p>Divide 440 into 588 (= 1) Multiply 1 times 440 (= 440) Subtract 440 from 588 (= 148) Bring down the 0</p> <p>Divide 440 into 1480 (= 3) Multiply 3 times 440 (= 1320) Subtract 1320 from 1480 (= 160) Done. No more numbers to bring down.</p>
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