

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)

$$28 \overline{) 3214358}$$

(2)

$$34 \overline{) 6422672}$$

(3)

$$70 \overline{) 9144951}$$

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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} 114798 \text{ R}14 \\ 28 \overline{) 3214358} \\ \underline{- 28} \qquad (1 \times 28) \\ 41 \\ \underline{- 28} \qquad (1 \times 28) \\ 134 \\ \underline{- 112} \qquad (4 \times 28) \\ 223 \\ \underline{- 196} \qquad (7 \times 28) \\ 275 \\ \underline{- 252} \qquad (9 \times 28) \\ 238 \\ \underline{- 224} \qquad (8 \times 28) \\ \text{Remainder --> } 14 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 28 into 32 (= 1) Multiply 1 times 28 (= 28) Subtract 28 from 32 (= 4) Bring down the 1</p> <p>Divide 28 into 41 (= 1) Multiply 1 times 28 (= 28) Subtract 28 from 41 (= 13) Bring down the 4</p> <p>Divide 28 into 134 (= 4) Multiply 4 times 28 (= 112) Subtract 112 from 134 (= 22) Bring down the 3</p> <p>Divide 28 into 223 (= 7) Multiply 7 times 28 (= 196) Subtract 196 from 223 (= 27) Bring down the 5</p> <p>Divide 28 into 275 (= 9) Multiply 9 times 28 (= 252) Subtract 252 from 275 (= 23) Bring down the 8</p> <p>Divide 28 into 238 (= 8) Multiply 8 times 28 (= 224) Subtract 224 from 238 (= 14) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 188902 \text{ R}4 \\ 34 \overline{) 6422672} \\ \underline{- 34} \qquad (1 \times 34) \\ 302 \\ \underline{- 272} \qquad (8 \times 34) \\ 302 \\ \underline{- 272} \qquad (8 \times 34) \\ 306 \\ \underline{- 306} \qquad (9 \times 34) \\ 07 \\ \underline{- 0} \qquad (0 \times 34) \\ 72 \\ \underline{- 68} \qquad (2 \times 34) \\ \text{Remainder --> } 4 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 34 into 64 (= 1) Multiply 1 times 34 (= 34) Subtract 34 from 64 (= 30) Bring down the 2</p> <p>Divide 34 into 302 (= 8) Multiply 8 times 34 (= 272) Subtract 272 from 302 (= 30) Bring down the 2</p> <p>Divide 34 into 302 (= 8) Multiply 8 times 34 (= 272) Subtract 272 from 302 (= 30) Bring down the 6</p> <p>Divide 34 into 306 (= 9) Multiply 9 times 34 (= 306) Subtract 306 from 306 (= 0) Bring down the 7</p> <p>Divide 34 into 07 (= 0) Multiply 0 times 34 (= 0) Subtract 0 from 07 (= 7) Bring down the 2</p> <p>Divide 34 into 72 (= 2) Multiply 2 times 34 (= 68) Subtract 68 from 72 (= 4) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 130642 \text{ R}11 \\ 70 \overline{) 9144951} \\ \underline{- 70} \qquad (1 \times 70) \\ 214 \\ \underline{- 210} \qquad (3 \times 70) \\ 44 \\ \underline{- 0} \qquad (0 \times 70) \\ 449 \\ \underline{- 420} \qquad (6 \times 70) \\ 295 \\ \underline{- 280} \qquad (4 \times 70) \\ 151 \\ \underline{- 140} \qquad (2 \times 70) \\ \text{Remainder --> } 11 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 70 into 91 (= 1) Multiply 1 times 70 (= 70) Subtract 70 from 91 (= 21) Bring down the 4</p> <p>Divide 70 into 214 (= 3) Multiply 3 times 70 (= 210) Subtract 210 from 214 (= 4) Bring down the 4</p> <p>Divide 70 into 44 (= 0) Multiply 0 times 70 (= 0) Subtract 0 from 44 (= 44) Bring down the 9</p> <p>Divide 70 into 449 (= 6) Multiply 6 times 70 (= 420) Subtract 420 from 449 (= 29) Bring down the 5</p> <p>Divide 70 into 295 (= 4) Multiply 4 times 70 (= 280) Subtract 280 from 295 (= 15) Bring down the 1</p> <p>Divide 70 into 151 (= 2) Multiply 2 times 70 (= 140) Subtract 140 from 151 (= 11) Done. No more numbers to bring down.</p>
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