

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)

$$30 \overline{) 282265}$$

(2)

$$62 \overline{) 908472}$$

(3)

$$61 \overline{) 792237}$$

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Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<p>(1)</p> $ \begin{array}{r} 9408 \text{ R}25 \\ 30 \overline{) 282265} \\ \underline{- 270} \quad (9 \times 30) \\ 122 \\ \underline{- 120} \quad (4 \times 30) \\ 26 \\ \underline{- 0} \quad (0 \times 30) \\ 265 \\ \underline{- 240} \quad (8 \times 30) \\ \text{Remainder --> } 25 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 30 into 282 (= 9) Multiply 9 times 30 (= 270) Subtract 270 from 282 (= 12) Bring down the 2</p> <p>Divide 30 into 122 (= 4) Multiply 4 times 30 (= 120) Subtract 120 from 122 (= 2) Bring down the 6</p> <p>Divide 30 into 26 (= 0) Multiply 0 times 30 (= 0) Subtract 0 from 26 (= 26) Bring down the 5</p> <p>Divide 30 into 265 (= 8) Multiply 8 times 30 (= 240) Subtract 240 from 265 (= 25) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 14652 \text{ R}48 \\ 62 \overline{) 908472} \\ \underline{- 62} \quad (1 \times 62) \\ 288 \\ \underline{- 248} \quad (4 \times 62) \\ 404 \\ \underline{- 372} \quad (6 \times 62) \\ 327 \\ \underline{- 310} \quad (5 \times 62) \\ 172 \\ \underline{- 124} \quad (2 \times 62) \\ \text{Remainder --> } 48 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 62 into 90 (= 1) Multiply 1 times 62 (= 62) Subtract 62 from 90 (= 28) Bring down the 8</p> <p>Divide 62 into 288 (= 4) Multiply 4 times 62 (= 248) Subtract 248 from 288 (= 40) Bring down the 4</p> <p>Divide 62 into 404 (= 6) Multiply 6 times 62 (= 372) Subtract 372 from 404 (= 32) Bring down the 7</p> <p>Divide 62 into 327 (= 5) Multiply 5 times 62 (= 310) Subtract 310 from 327 (= 17) Bring down the 2</p> <p>Divide 62 into 172 (= 2) Multiply 2 times 62 (= 124) Subtract 124 from 172 (= 48) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 12987 \text{ R}30 \\ 61 \overline{) 792237} \\ \underline{- 61} \quad (1 \times 61) \\ 182 \\ \underline{- 122} \quad (2 \times 61) \\ 602 \\ \underline{- 549} \quad (9 \times 61) \\ 533 \\ \underline{- 488} \quad (8 \times 61) \\ 457 \\ \underline{- 427} \quad (7 \times 61) \\ \text{Remainder --> } 30 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 61 into 79 (= 1) Multiply 1 times 61 (= 61) Subtract 61 from 79 (= 18) Bring down the 2</p> <p>Divide 61 into 182 (= 2) Multiply 2 times 61 (= 122) Subtract 122 from 182 (= 60) Bring down the 2</p> <p>Divide 61 into 602 (= 9) Multiply 9 times 61 (= 549) Subtract 549 from 602 (= 53) Bring down the 3</p> <p>Divide 61 into 533 (= 8) Multiply 8 times 61 (= 488) Subtract 488 from 533 (= 45) Bring down the 7</p> <p>Divide 61 into 457 (= 7) Multiply 7 times 61 (= 427) Subtract 427 from 457 (= 30) Done. No more numbers to bring down.</p>
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