

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)

$$94 \overline{) 8555499}$$

(2)

$$13 \overline{) 9944357}$$

(3)

$$43 \overline{) 1279986}$$

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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} 94 \overline{) 8555499} \quad R89 \\ \underline{- 846} \quad (9 \times 94) \\ 95 \\ \underline{- 94} \quad (1 \times 94) \\ 14 \\ \underline{- 0} \quad (0 \times 94) \\ 149 \\ \underline{- 94} \quad (1 \times 94) \\ 559 \\ \underline{- 470} \quad (5 \times 94) \\ 89 \end{array} $ <p>Remainder --> 89</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 94 into 855 (= 9) Multiply 9 times 94 (= 846) Subtract 846 from 855 (= 9) Bring down the 5</p> <p>Divide 94 into 95 (= 1) Multiply 1 times 94 (= 94) Subtract 94 from 95 (= 1) Bring down the 4</p> <p>Divide 94 into 14 (= 0) Multiply 0 times 94 (= 0) Subtract 0 from 14 (= 14) Bring down the 9</p> <p>Divide 94 into 149 (= 1) Multiply 1 times 94 (= 94) Subtract 94 from 149 (= 55) Bring down the 9</p> <p>Divide 94 into 559 (= 5) Multiply 5 times 94 (= 470) Subtract 470 from 559 (= 89) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 13 \overline{) 9944357} \quad R7 \\ \underline{- 91} \quad (7 \times 13) \\ 84 \\ \underline{- 78} \quad (6 \times 13) \\ 64 \\ \underline{- 52} \quad (4 \times 13) \\ 123 \\ \underline{- 117} \quad (9 \times 13) \\ 65 \\ \underline{- 65} \quad (5 \times 13) \\ 07 \\ \underline{- 0} \quad (0 \times 13) \\ 7 \end{array} $ <p>Remainder --> 7</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 13 into 99 (= 7) Multiply 7 times 13 (= 91) Subtract 91 from 99 (= 8) Bring down the 4</p> <p>Divide 13 into 84 (= 6) Multiply 6 times 13 (= 78) Subtract 78 from 84 (= 6) Bring down the 4</p> <p>Divide 13 into 64 (= 4) Multiply 4 times 13 (= 52) Subtract 52 from 64 (= 12) Bring down the 3</p> <p>Divide 13 into 123 (= 9) Multiply 9 times 13 (= 117) Subtract 117 from 123 (= 6) Bring down the 5</p> <p>Divide 13 into 65 (= 5) Multiply 5 times 13 (= 65) Subtract 65 from 65 (= 0) Bring down the 7</p> <p>Divide 13 into 07 (= 0) Multiply 0 times 13 (= 0) Subtract 0 from 07 (= 7) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 43 \overline{) 1279986} \quad R5 \\ \underline{- 86} \quad (2 \times 43) \\ 419 \\ \underline{- 387} \quad (9 \times 43) \\ 329 \\ \underline{- 301} \quad (7 \times 43) \\ 288 \\ \underline{- 258} \quad (6 \times 43) \\ 306 \\ \underline{- 301} \quad (7 \times 43) \\ 5 \end{array} $ <p>Remainder --> 5</p> <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 43 into 127 (= 2) Multiply 2 times 43 (= 86) Subtract 86 from 127 (= 41) Bring down the 9</p> <p>Divide 43 into 419 (= 9) Multiply 9 times 43 (= 387) Subtract 387 from 419 (= 32) Bring down the 9</p> <p>Divide 43 into 329 (= 7) Multiply 7 times 43 (= 301) Subtract 301 from 329 (= 28) Bring down the 8</p> <p>Divide 43 into 288 (= 6) Multiply 6 times 43 (= 258) Subtract 258 from 288 (= 30) Bring down the 6</p> <p>Divide 43 into 306 (= 7) Multiply 7 times 43 (= 301) Subtract 301 from 306 (= 5) Done. No more numbers to bring down.</p>
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