

# 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)

$$5 \overline{)346719}$$

(2)

$$5 \overline{)230533}$$

(3)

$$3 \overline{)823783}$$

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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> $\begin{array}{r} 69343 \text{ R4} \\ 5 \overline{) 346719} \\ - 30 \qquad (6 \times 5) \\ \hline 46 \\ - 45 \qquad (9 \times 5) \\ \hline 17 \\ - 15 \qquad (3 \times 5) \\ \hline 21 \\ - 20 \qquad (4 \times 5) \\ \hline 19 \\ - 15 \qquad (3 \times 5) \\ \hline \text{Remainder --> } 4 \end{array}$ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 34 (= 6)            Multiply 6 times 5 (= 30)            Subtract 30 from 34 (= 4)            Bring down the 6</p> <p>Divide 5 into 46 (= 9)            Multiply 9 times 5 (= 45)            Subtract 45 from 46 (= 1)            Bring down the 7</p> <p>Divide 5 into 17 (= 3)            Multiply 3 times 5 (= 15)            Subtract 15 from 17 (= 2)            Bring down the 1</p> <p>Divide 5 into 21 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 21 (= 1)            Bring down the 9</p> <p>Divide 5 into 19 (= 3)            Multiply 3 times 5 (= 15)            Subtract 15 from 19 (= 4)            Done. No more numbers to bring down.</p>	<p>(2)</p> $\begin{array}{r} 46106 \text{ R3} \\ 5 \overline{) 230533} \\ - 20 \qquad (4 \times 5) \\ \hline 30 \\ - 30 \qquad (6 \times 5) \\ \hline 05 \\ - 5 \qquad (1 \times 5) \\ \hline 03 \\ - 0 \qquad (0 \times 5) \\ \hline 33 \\ - 30 \qquad (6 \times 5) \\ \hline \text{Remainder --> } 3 \end{array}$ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 23 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 23 (= 3)            Bring down the 0</p> <p>Divide 5 into 30 (= 6)            Multiply 6 times 5 (= 30)            Subtract 30 from 30 (= 0)            Bring down the 5</p> <p>Divide 5 into 05 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 05 (= 0)            Bring down the 3</p> <p>Divide 5 into 03 (= 0)            Multiply 0 times 5 (= 0)            Subtract 0 from 03 (= 3)            Bring down the 3</p> <p>Divide 5 into 33 (= 6)            Multiply 6 times 5 (= 30)            Subtract 30 from 33 (= 3)            Done. No more numbers to bring down.</p>	<p>(3)</p> $\begin{array}{r} 274594 \text{ R1} \\ 3 \overline{) 823783} \\ - 6 \qquad (2 \times 3) \\ \hline 22 \\ - 21 \qquad (7 \times 3) \\ \hline 13 \\ - 12 \qquad (4 \times 3) \\ \hline 17 \\ - 15 \qquad (5 \times 3) \\ \hline 28 \\ - 27 \qquad (9 \times 3) \\ \hline 13 \\ - 12 \qquad (4 \times 3) \\ \hline \text{Remainder --> } 1 \end{array}$ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 8 (= 2)            Multiply 2 times 3 (= 6)            Subtract 6 from 8 (= 2)            Bring down the 2</p> <p>Divide 3 into 22 (= 7)            Multiply 7 times 3 (= 21)            Subtract 21 from 22 (= 1)            Bring down the 3</p> <p>Divide 3 into 13 (= 4)            Multiply 4 times 3 (= 12)            Subtract 12 from 13 (= 1)            Bring down the 7</p> <p>Divide 3 into 17 (= 5)            Multiply 5 times 3 (= 15)            Subtract 15 from 17 (= 2)            Bring down the 8</p> <p>Divide 3 into 28 (= 9)            Multiply 9 times 3 (= 27)            Subtract 27 from 28 (= 1)            Bring down the 3</p> <p>Divide 3 into 13 (= 4)            Multiply 4 times 3 (= 12)            Subtract 12 from 13 (= 1)            Done. No more numbers to bring down.</p>
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