

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)

$$551 \overline{) 1685684}$$

(2)

$$113 \overline{) 5798017}$$

(3)

$$594 \overline{) 2880521}$$

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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} 3059 \text{ R}175 \\ 551 \overline{) 1685684} \\ \underline{- 1653} \quad (3 \times 551) \\ 326 \\ \underline{- 0} \quad (0 \times 551) \\ 3268 \\ \underline{- 2755} \quad (5 \times 551) \\ 5134 \\ \underline{- 4959} \quad (9 \times 551) \\ \text{Remainder --> } 175 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 551 into 1685 (= 3) Multiply 3 times 551 (= 1653) Subtract 1653 from 1685 (= 32) Bring down the 6</p> <p>Divide 551 into 326 (= 0) Multiply 0 times 551 (= 0) Subtract 0 from 326 (= 326) Bring down the 8</p> <p>Divide 551 into 3268 (= 5) Multiply 5 times 551 (= 2755) Subtract 2755 from 3268 (= 513) Bring down the 4</p> <p>Divide 551 into 5134 (= 9) Multiply 9 times 551 (= 4959) Subtract 4959 from 5134 (= 175) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 51309 \text{ R}100 \\ 113 \overline{) 5798017} \\ \underline{- 565} \quad (5 \times 113) \\ 148 \\ \underline{- 113} \quad (1 \times 113) \\ 350 \\ \underline{- 339} \quad (3 \times 113) \\ 111 \\ \underline{- 0} \quad (0 \times 113) \\ 1117 \\ \underline{- 1017} \quad (9 \times 113) \\ \text{Remainder --> } 100 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 113 into 579 (= 5) Multiply 5 times 113 (= 565) Subtract 565 from 579 (= 14) Bring down the 8</p> <p>Divide 113 into 148 (= 1) Multiply 1 times 113 (= 113) Subtract 113 from 148 (= 35) Bring down the 0</p> <p>Divide 113 into 350 (= 3) Multiply 3 times 113 (= 339) Subtract 339 from 350 (= 11) Bring down the 1</p> <p>Divide 113 into 111 (= 0) Multiply 0 times 113 (= 0) Subtract 0 from 111 (= 111) Bring down the 7</p> <p>Divide 113 into 1117 (= 9) Multiply 9 times 113 (= 1017) Subtract 1017 from 1117 (= 100) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 4849 \text{ R}215 \\ 594 \overline{) 2880521} \\ \underline{- 2376} \quad (4 \times 594) \\ 5045 \\ \underline{- 4752} \quad (8 \times 594) \\ 2932 \\ \underline{- 2376} \quad (4 \times 594) \\ 5561 \\ \underline{- 5346} \quad (9 \times 594) \\ \text{Remainder --> } 215 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 594 into 2880 (= 4) Multiply 4 times 594 (= 2376) Subtract 2376 from 2880 (= 504) Bring down the 5</p> <p>Divide 594 into 5045 (= 8) Multiply 8 times 594 (= 4752) Subtract 4752 from 5045 (= 293) Bring down the 2</p> <p>Divide 594 into 2932 (= 4) Multiply 4 times 594 (= 2376) Subtract 2376 from 2932 (= 556) Bring down the 1</p> <p>Divide 594 into 5561 (= 9) Multiply 9 times 594 (= 5346) Subtract 5346 from 5561 (= 215) Done. No more numbers to bring down.</p>
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