

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)

$$425 \overline{) 2757423}$$

(2)

$$728 \overline{) 4605092}$$

(3)

$$600 \overline{) 4766831}$$

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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} 6488 \text{ R}23 \\ 425 \overline{) 2757423} \\ \underline{- 2550} \quad (6 \times 425) \\ 2074 \\ \underline{- 1700} \quad (4 \times 425) \\ 3742 \\ \underline{- 3400} \quad (8 \times 425) \\ 3423 \\ \underline{- 3400} \quad (8 \times 425) \\ \text{Remainder -->} \quad 23 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 425 into 2757 (= 6) Multiply 6 times 425 (= 2550) Subtract 2550 from 2757 (= 207) Bring down the 4</p> <p>Divide 425 into 2074 (= 4) Multiply 4 times 425 (= 1700) Subtract 1700 from 2074 (= 374) Bring down the 2</p> <p>Divide 425 into 3742 (= 8) Multiply 8 times 425 (= 3400) Subtract 3400 from 3742 (= 342) Bring down the 3</p> <p>Divide 425 into 3423 (= 8) Multiply 8 times 425 (= 3400) Subtract 3400 from 3423 (= 23) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 6325 \text{ R}492 \\ 728 \overline{) 4605092} \\ \underline{- 4368} \quad (6 \times 728) \\ 2370 \\ \underline{- 2184} \quad (3 \times 728) \\ 1869 \\ \underline{- 1456} \quad (2 \times 728) \\ 4132 \\ \underline{- 3640} \quad (5 \times 728) \\ \text{Remainder -->} \quad 492 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 728 into 4605 (= 6) Multiply 6 times 728 (= 4368) Subtract 4368 from 4605 (= 237) Bring down the 0</p> <p>Divide 728 into 2370 (= 3) Multiply 3 times 728 (= 2184) Subtract 2184 from 2370 (= 186) Bring down the 9</p> <p>Divide 728 into 1869 (= 2) Multiply 2 times 728 (= 1456) Subtract 1456 from 1869 (= 413) Bring down the 2</p> <p>Divide 728 into 4132 (= 5) Multiply 5 times 728 (= 3640) Subtract 3640 from 4132 (= 492) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 7944 \text{ R}431 \\ 600 \overline{) 4766831} \\ \underline{- 4200} \quad (7 \times 600) \\ 5668 \\ \underline{- 5400} \quad (9 \times 600) \\ 2683 \\ \underline{- 2400} \quad (4 \times 600) \\ 2831 \\ \underline{- 2400} \quad (4 \times 600) \\ \text{Remainder -->} \quad 431 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 600 into 4766 (= 7) Multiply 7 times 600 (= 4200) Subtract 4200 from 4766 (= 566) Bring down the 8</p> <p>Divide 600 into 5668 (= 9) Multiply 9 times 600 (= 5400) Subtract 5400 from 5668 (= 268) Bring down the 3</p> <p>Divide 600 into 2683 (= 4) Multiply 4 times 600 (= 2400) Subtract 2400 from 2683 (= 283) Bring down the 1</p> <p>Divide 600 into 2831 (= 4) Multiply 4 times 600 (= 2400) Subtract 2400 from 2831 (= 431) Done. No more numbers to bring down.</p>
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