

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)

$$31 \overline{) 8424394}$$

(2)

$$50 \overline{) 3818518}$$

(3)

$$85 \overline{) 5037676}$$

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

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

<p>(1)</p> $ \begin{array}{r} 271754 \text{ R}20 \\ 31 \overline{) 8424394} \\ \underline{- 62} \qquad (2 \times 31) \\ 222 \\ \underline{- 217} \qquad (7 \times 31) \\ 54 \\ \underline{- 31} \qquad (1 \times 31) \\ 233 \\ \underline{- 217} \qquad (7 \times 31) \\ 169 \\ \underline{- 155} \qquad (5 \times 31) \\ 144 \\ \underline{- 124} \qquad (4 \times 31) \\ \text{Remainder -->} \quad 20 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 31 into 84 (= 2) Multiply 2 times 31 (= 62) Subtract 62 from 84 (= 22) Bring down the 2</p> <p>Divide 31 into 222 (= 7) Multiply 7 times 31 (= 217) Subtract 217 from 222 (= 5) Bring down the 4</p> <p>Divide 31 into 54 (= 1) Multiply 1 times 31 (= 31) Subtract 31 from 54 (= 23) Bring down the 3</p> <p>Divide 31 into 233 (= 7) Multiply 7 times 31 (= 217) Subtract 217 from 233 (= 16) Bring down the 9</p> <p>Divide 31 into 169 (= 5) Multiply 5 times 31 (= 155) Subtract 155 from 169 (= 14) Bring down the 4</p> <p>Divide 31 into 144 (= 4) Multiply 4 times 31 (= 124) Subtract 124 from 144 (= 20) Done. No more numbers to bring down.</p>	<p>(2)</p> $ \begin{array}{r} 76370 \text{ R}18 \\ 50 \overline{) 3818518} \\ \underline{- 350} \qquad (7 \times 50) \\ 318 \\ \underline{- 300} \qquad (6 \times 50) \\ 185 \\ \underline{- 150} \qquad (3 \times 50) \\ 351 \\ \underline{- 350} \qquad (7 \times 50) \\ 18 \\ \underline{- 0} \qquad (0 \times 50) \\ \text{Remainder -->} \quad 18 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 50 into 381 (= 7) Multiply 7 times 50 (= 350) Subtract 350 from 381 (= 31) Bring down the 8</p> <p>Divide 50 into 318 (= 6) Multiply 6 times 50 (= 300) Subtract 300 from 318 (= 18) Bring down the 5</p> <p>Divide 50 into 185 (= 3) Multiply 3 times 50 (= 150) Subtract 150 from 185 (= 35) Bring down the 1</p> <p>Divide 50 into 351 (= 7) Multiply 7 times 50 (= 350) Subtract 350 from 351 (= 1) Bring down the 8</p> <p>Divide 50 into 18 (= 0) Multiply 0 times 50 (= 0) Subtract 0 from 18 (= 18) Done. No more numbers to bring down.</p>	<p>(3)</p> $ \begin{array}{r} 59266 \text{ R}66 \\ 85 \overline{) 5037676} \\ \underline{- 425} \qquad (5 \times 85) \\ 787 \\ \underline{- 765} \qquad (9 \times 85) \\ 226 \\ \underline{- 170} \qquad (2 \times 85) \\ 567 \\ \underline{- 510} \qquad (6 \times 85) \\ 576 \\ \underline{- 510} \qquad (6 \times 85) \\ \text{Remainder -->} \quad 66 \end{array} $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 85 into 503 (= 5) Multiply 5 times 85 (= 425) Subtract 425 from 503 (= 78) Bring down the 7</p> <p>Divide 85 into 787 (= 9) Multiply 9 times 85 (= 765) Subtract 765 from 787 (= 22) Bring down the 6</p> <p>Divide 85 into 226 (= 2) Multiply 2 times 85 (= 170) Subtract 170 from 226 (= 56) Bring down the 7</p> <p>Divide 85 into 567 (= 6) Multiply 6 times 85 (= 510) Subtract 510 from 567 (= 57) Bring down the 6</p> <p>Divide 85 into 576 (= 6) Multiply 6 times 85 (= 510) Subtract 510 from 576 (= 66) Done. No more numbers to bring down.</p>
--	---	---