

# 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)

$$7 \overline{) 16322}$$

(2)

$$2 \overline{) 90612}$$

(3)

$$5 \overline{) 62418}$$

# 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}  2331 \text{ R}5 \\  7 \overline{) 16322} \\  \underline{- 14} \qquad (2 \times 7) \\  23 \\  \underline{- 21} \qquad (3 \times 7) \\  22 \\  \underline{- 21} \qquad (3 \times 7) \\  12 \\  \underline{- 7} \qquad (1 \times 7) \\  \text{Remainder --> } 5  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 16 (= 2)            Multiply 2 times 7 (= 14)            Subtract 14 from 16 (= 2)            Bring down the 3</p> <p>Divide 7 into 23 (= 3)            Multiply 3 times 7 (= 21)            Subtract 21 from 23 (= 2)            Bring down the 2</p> <p>Divide 7 into 22 (= 3)            Multiply 3 times 7 (= 21)            Subtract 21 from 22 (= 1)            Bring down the 2</p> <p>Divide 7 into 12 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 12 (= 5)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  45306 \text{ R}0 \\  2 \overline{) 90612} \\  \underline{- 8} \qquad (4 \times 2) \\  10 \\  \underline{- 10} \qquad (5 \times 2) \\  06 \\  \underline{- 6} \qquad (3 \times 2) \\  01 \\  \underline{- 0} \qquad (0 \times 2) \\  12 \\  \underline{- 12} \qquad (6 \times 2) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 2 into 9 (= 4)            Multiply 4 times 2 (= 8)            Subtract 8 from 9 (= 1)            Bring down the 0</p> <p>Divide 2 into 10 (= 5)            Multiply 5 times 2 (= 10)            Subtract 10 from 10 (= 0)            Bring down the 6</p> <p>Divide 2 into 06 (= 3)            Multiply 3 times 2 (= 6)            Subtract 6 from 06 (= 0)            Bring down the 1</p> <p>Divide 2 into 01 (= 0)            Multiply 0 times 2 (= 0)            Subtract 0 from 01 (= 1)            Bring down the 2</p> <p>Divide 2 into 12 (= 6)            Multiply 6 times 2 (= 12)            Subtract 12 from 12 (= 0)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  12483 \text{ R}3 \\  5 \overline{) 62418} \\  \underline{- 5} \qquad (1 \times 5) \\  12 \\  \underline{- 10} \qquad (2 \times 5) \\  24 \\  \underline{- 20} \qquad (4 \times 5) \\  41 \\  \underline{- 40} \qquad (8 \times 5) \\  18 \\  \underline{- 15} \qquad (3 \times 5) \\  \text{Remainder --> } 3  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 5 into 6 (= 1)            Multiply 1 times 5 (= 5)            Subtract 5 from 6 (= 1)            Bring down the 2</p> <p>Divide 5 into 12 (= 2)            Multiply 2 times 5 (= 10)            Subtract 10 from 12 (= 2)            Bring down the 4</p> <p>Divide 5 into 24 (= 4)            Multiply 4 times 5 (= 20)            Subtract 20 from 24 (= 4)            Bring down the 1</p> <p>Divide 5 into 41 (= 8)            Multiply 8 times 5 (= 40)            Subtract 40 from 41 (= 1)            Bring down the 8</p> <p>Divide 5 into 18 (= 3)            Multiply 3 times 5 (= 15)            Subtract 15 from 18 (= 3)            Done. No more numbers to bring down.</p>
--	---	---