

# 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)

$$9 \overline{) 39289}$$

(2)

$$9 \overline{) 76756}$$

(3)

$$8 \overline{) 93462}$$

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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}  4365 \text{ R}4 \\  9 \overline{) 39289} \\  \underline{- 36} \qquad (4 \times 9) \\  32 \\  \underline{- 27} \qquad (3 \times 9) \\  58 \\  \underline{- 54} \qquad (6 \times 9) \\  49 \\  \underline{- 45} \qquad (5 \times 9) \\  \text{Remainder --> } 4  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 39 (= 4)            Multiply 4 times 9 (= 36)            Subtract 36 from 39 (= 3)            Bring down the 2</p> <p>Divide 9 into 32 (= 3)            Multiply 3 times 9 (= 27)            Subtract 27 from 32 (= 5)            Bring down the 8</p> <p>Divide 9 into 58 (= 6)            Multiply 6 times 9 (= 54)            Subtract 54 from 58 (= 4)            Bring down the 9</p> <p>Divide 9 into 49 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 49 (= 4)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  8528 \text{ R}4 \\  9 \overline{) 76756} \\  \underline{- 72} \qquad (8 \times 9) \\  47 \\  \underline{- 45} \qquad (5 \times 9) \\  25 \\  \underline{- 18} \qquad (2 \times 9) \\  76 \\  \underline{- 72} \qquad (8 \times 9) \\  \text{Remainder --> } 4  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 9 into 76 (= 8)            Multiply 8 times 9 (= 72)            Subtract 72 from 76 (= 4)            Bring down the 7</p> <p>Divide 9 into 47 (= 5)            Multiply 5 times 9 (= 45)            Subtract 45 from 47 (= 2)            Bring down the 5</p> <p>Divide 9 into 25 (= 2)            Multiply 2 times 9 (= 18)            Subtract 18 from 25 (= 7)            Bring down the 6</p> <p>Divide 9 into 76 (= 8)            Multiply 8 times 9 (= 72)            Subtract 72 from 76 (= 4)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  11682 \text{ R}6 \\  8 \overline{) 93462} \\  \underline{- 8} \qquad (1 \times 8) \\  13 \\  \underline{- 8} \qquad (1 \times 8) \\  54 \\  \underline{- 48} \qquad (6 \times 8) \\  66 \\  \underline{- 64} \qquad (8 \times 8) \\  22 \\  \underline{- 16} \qquad (2 \times 8) \\  \text{Remainder --> } 6  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 8 into 9 (= 1)            Multiply 1 times 8 (= 8)            Subtract 8 from 9 (= 1)            Bring down the 3</p> <p>Divide 8 into 13 (= 1)            Multiply 1 times 8 (= 8)            Subtract 8 from 13 (= 5)            Bring down the 4</p> <p>Divide 8 into 54 (= 6)            Multiply 6 times 8 (= 48)            Subtract 48 from 54 (= 6)            Bring down the 6</p> <p>Divide 8 into 66 (= 8)            Multiply 8 times 8 (= 64)            Subtract 64 from 66 (= 2)            Bring down the 2</p> <p>Divide 8 into 22 (= 2)            Multiply 2 times 8 (= 16)            Subtract 16 from 22 (= 6)            Done. No more numbers to bring down.</p>
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