

# 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)

$$4 \overline{) 78507}$$

(2)

$$3 \overline{) 65547}$$

(3)

$$7 \overline{) 98497}$$

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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}  19626 \text{ R}3 \\  4 \overline{) 78507} \\  \underline{- 4} \qquad (1 \times 4) \\  38 \\  \underline{- 36} \qquad (9 \times 4) \\  25 \\  \underline{- 24} \qquad (6 \times 4) \\  10 \\  \underline{- 8} \qquad (2 \times 4) \\  27 \\  \underline{- 24} \qquad (6 \times 4) \\  \text{Remainder --> } 3  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 4 into 7 (= 1)            Multiply 1 times 4 (= 4)            Subtract 4 from 7 (= 3)            Bring down the 8</p> <p>Divide 4 into 38 (= 9)            Multiply 9 times 4 (= 36)            Subtract 36 from 38 (= 2)            Bring down the 5</p> <p>Divide 4 into 25 (= 6)            Multiply 6 times 4 (= 24)            Subtract 24 from 25 (= 1)            Bring down the 0</p> <p>Divide 4 into 10 (= 2)            Multiply 2 times 4 (= 8)            Subtract 8 from 10 (= 2)            Bring down the 7</p> <p>Divide 4 into 27 (= 6)            Multiply 6 times 4 (= 24)            Subtract 24 from 27 (= 3)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  21849 \text{ R}0 \\  3 \overline{) 65547} \\  \underline{- 6} \qquad (2 \times 3) \\  05 \\  \underline{- 3} \qquad (1 \times 3) \\  25 \\  \underline{- 24} \qquad (8 \times 3) \\  14 \\  \underline{- 12} \qquad (4 \times 3) \\  27 \\  \underline{- 27} \qquad (9 \times 3) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 3 into 6 (= 2)            Multiply 2 times 3 (= 6)            Subtract 6 from 6 (= 0)            Bring down the 5</p> <p>Divide 3 into 05 (= 1)            Multiply 1 times 3 (= 3)            Subtract 3 from 05 (= 2)            Bring down the 5</p> <p>Divide 3 into 25 (= 8)            Multiply 8 times 3 (= 24)            Subtract 24 from 25 (= 1)            Bring down the 4</p> <p>Divide 3 into 14 (= 4)            Multiply 4 times 3 (= 12)            Subtract 12 from 14 (= 2)            Bring down the 7</p> <p>Divide 3 into 27 (= 9)            Multiply 9 times 3 (= 27)            Subtract 27 from 27 (= 0)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  14071 \text{ R}0 \\  7 \overline{) 98497} \\  \underline{- 7} \qquad (1 \times 7) \\  28 \\  \underline{- 28} \qquad (4 \times 7) \\  04 \\  \underline{- 0} \qquad (0 \times 7) \\  49 \\  \underline{- 49} \qquad (7 \times 7) \\  07 \\  \underline{- 7} \qquad (1 \times 7) \\  \text{Remainder --> } 0  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 7 into 9 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 9 (= 2)            Bring down the 8</p> <p>Divide 7 into 28 (= 4)            Multiply 4 times 7 (= 28)            Subtract 28 from 28 (= 0)            Bring down the 4</p> <p>Divide 7 into 04 (= 0)            Multiply 0 times 7 (= 0)            Subtract 0 from 04 (= 4)            Bring down the 9</p> <p>Divide 7 into 49 (= 7)            Multiply 7 times 7 (= 49)            Subtract 49 from 49 (= 0)            Bring down the 7</p> <p>Divide 7 into 07 (= 1)            Multiply 1 times 7 (= 7)            Subtract 7 from 07 (= 0)            Done. No more numbers to bring down.</p>
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