

# 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)

$$263 \overline{) 7451451}$$

(2)

$$240 \overline{) 5850442}$$

(3)

$$656 \overline{) 9505767}$$

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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}  28332 \text{ R}135 \\  263 \overline{) 7451451} \\  \underline{- 526} \qquad (2 \times 263) \\  2191 \\  \underline{- 2104} \qquad (8 \times 263) \\  874 \\  \underline{- 789} \qquad (3 \times 263) \\  855 \\  \underline{- 789} \qquad (3 \times 263) \\  661 \\  \underline{- 526} \qquad (2 \times 263) \\  135 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 263 into 745 (= 2)            Multiply 2 times 263 (= 526)            Subtract 526 from 745 (= 219)            Bring down the 1</p> <p>Divide 263 into 2191 (= 8)            Multiply 8 times 263 (= 2104)            Subtract 2104 from 2191 (= 87)            Bring down the 4</p> <p>Divide 263 into 874 (= 3)            Multiply 3 times 263 (= 789)            Subtract 789 from 874 (= 85)            Bring down the 5</p> <p>Divide 263 into 855 (= 3)            Multiply 3 times 263 (= 789)            Subtract 789 from 855 (= 66)            Bring down the 1</p> <p>Divide 263 into 661 (= 2)            Multiply 2 times 263 (= 526)            Subtract 526 from 661 (= 135)            Done. No more numbers to bring down.</p>	<p>(2)</p> $  \begin{array}{r}  24376 \text{ R}202 \\  240 \overline{) 5850442} \\  \underline{- 480} \qquad (2 \times 240) \\  1050 \\  \underline{- 960} \qquad (4 \times 240) \\  904 \\  \underline{- 720} \qquad (3 \times 240) \\  1844 \\  \underline{- 1680} \qquad (7 \times 240) \\  1642 \\  \underline{- 1440} \qquad (6 \times 240) \\  202 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 240 into 585 (= 2)            Multiply 2 times 240 (= 480)            Subtract 480 from 585 (= 105)            Bring down the 0</p> <p>Divide 240 into 1050 (= 4)            Multiply 4 times 240 (= 960)            Subtract 960 from 1050 (= 90)            Bring down the 4</p> <p>Divide 240 into 904 (= 3)            Multiply 3 times 240 (= 720)            Subtract 720 from 904 (= 184)            Bring down the 4</p> <p>Divide 240 into 1844 (= 7)            Multiply 7 times 240 (= 1680)            Subtract 1680 from 1844 (= 164)            Bring down the 2</p> <p>Divide 240 into 1642 (= 6)            Multiply 6 times 240 (= 1440)            Subtract 1440 from 1642 (= 202)            Done. No more numbers to bring down.</p>	<p>(3)</p> $  \begin{array}{r}  14490 \text{ R}327 \\  656 \overline{) 9505767} \\  \underline{- 656} \qquad (1 \times 656) \\  2945 \\  \underline{- 2624} \qquad (4 \times 656) \\  3217 \\  \underline{- 2624} \qquad (4 \times 656) \\  5936 \\  \underline{- 5904} \qquad (9 \times 656) \\  327 \\  \underline{- 0} \qquad (0 \times 656) \\  327 \\  \text{Remainder -->}  \end{array}  $ <p>Divide, Multiply, Subtract, Bring down, Repeat</p> <p>Divide 656 into 950 (= 1)            Multiply 1 times 656 (= 656)            Subtract 656 from 950 (= 294)            Bring down the 5</p> <p>Divide 656 into 2945 (= 4)            Multiply 4 times 656 (= 2624)            Subtract 2624 from 2945 (= 321)            Bring down the 7</p> <p>Divide 656 into 3217 (= 4)            Multiply 4 times 656 (= 2624)            Subtract 2624 from 3217 (= 593)            Bring down the 6</p> <p>Divide 656 into 5936 (= 9)            Multiply 9 times 656 (= 5904)            Subtract 5904 from 5936 (= 32)            Bring down the 7</p> <p>Divide 656 into 327 (= 0)            Multiply 0 times 656 (= 0)            Subtract 0 from 327 (= 327)            Done. No more numbers to bring down.</p>
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