

# 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)

$$4 \overline{) 352}$$

(2)

$$8 \overline{) 501}$$

(3)

$$5 \overline{) 433}$$

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

(1)

$$\begin{array}{r} 88 \text{ R}0 \\ 4 \overline{) 352} \\ \underline{- 32} \phantom{00} \quad (8 \times 4) \\ 32 \phantom{00} \\ \underline{- 32} \phantom{00} \quad (8 \times 4) \\ \phantom{00} 0 \end{array}$$

Remainder --> 0

Divide, Multiply, Subtract, Bring down, Repeat

Divide 4 into 35 (= 8)  
Multiply 8 times 4 (= 32)  
Subtract 32 from 35 (= 3)  
Bring down the 2

Divide 4 into 32 (= 8)  
Multiply 8 times 4 (= 32)  
Subtract 32 from 32 (= 0)  
Done. No more numbers to bring down.

(2)

$$\begin{array}{r} 62 \text{ R}5 \\ 8 \overline{) 501} \\ \underline{- 48} \phantom{00} \quad (6 \times 8) \\ 21 \phantom{00} \\ \underline{- 16} \phantom{00} \quad (2 \times 8) \\ \phantom{00} 5 \end{array}$$

Remainder --> 5

Divide, Multiply, Subtract, Bring down, Repeat

Divide 8 into 50 (= 6)  
Multiply 6 times 8 (= 48)  
Subtract 48 from 50 (= 2)  
Bring down the 1

Divide 8 into 21 (= 2)  
Multiply 2 times 8 (= 16)  
Subtract 16 from 21 (= 5)  
Done. No more numbers to bring down.

(3)

$$\begin{array}{r} 86 \text{ R}3 \\ 5 \overline{) 433} \\ \underline{- 40} \phantom{00} \quad (8 \times 5) \\ 33 \phantom{00} \\ \underline{- 30} \phantom{00} \quad (6 \times 5) \\ \phantom{00} 3 \end{array}$$

Remainder --> 3

Divide, Multiply, Subtract, Bring down, Repeat

Divide 5 into 43 (= 8)  
Multiply 8 times 5 (= 40)  
Subtract 40 from 43 (= 3)  
Bring down the 3

Divide 5 into 33 (= 6)  
Multiply 6 times 5 (= 30)  
Subtract 30 from 33 (= 3)  
Done. No more numbers to bring down.