

Name \_\_\_\_\_

## Mental Math: Dividing Multiples of 10, 100, and 1,000

Find  $16,000 \div 8$ .

Use a basic fact and look for a pattern with zeros.

$$\begin{array}{l} 16 \div 8 = 2 \\ 16\mathbf{0} \div 8 = \mathbf{20} \\ 1,6\mathbf{00} \div 8 = \mathbf{200} \\ 16,\mathbf{000} \div 8 = \mathbf{2,000} \\ \\ 16,000 \div 8 = 2,000 \leftarrow \text{quotient} \\ \begin{array}{c} \uparrow \qquad \uparrow \\ \text{dividend} \quad \text{divisor} \end{array} \end{array}$$

Check by using related multiplication sentences.

$$\begin{array}{l} 2 \times 8 = 16 \rightarrow 16 \div 8 = 2 \qquad 200 \times 8 = 1,600 \rightarrow 1,600 \div 8 = 200 \\ 20 \times 8 = 160 \rightarrow 160 \div 8 = 20 \qquad 2,000 \times 8 = 16,000 \rightarrow 16,000 \div 8 = 2,000 \end{array}$$

1.  $90 \div 3$                       2.  $320 \div 4$                       3.  $4,800 \div 6$                       4.  $54,000 \div 9$   
\_\_\_\_\_
5.  $60 \div 2$                       6.  $800 \div 4$                       7.  $40,000 \div 5$                       8.  $72,000 \div 8$   
\_\_\_\_\_

9. A sticker maker packed 45,000 stickers in 9 boxes.  
How many stickers were in each box?  
\_\_\_\_\_

10. A cereal company packs 6 boxes of cereal in a crate.  
How many crates are needed to store 3,000 boxes of cereal?  
\_\_\_\_\_

11. Marty has 420 stamps in his collection. If he puts 7 stickers on  
each page of his stamp album, how many pages will he use?  
\_\_\_\_\_

# Answer Key

## Mental Math: Dividing Multiples of 10, 100, and 1,000

Find  $16,000 \div 8$ .

Use a basic fact and look for a pattern with zeros.

$$\begin{array}{r} 16 \div 8 = 2 \\ 160 \div 8 = 20 \\ 1,600 \div 8 = 200 \\ 16,000 \div 8 = 2,000 \end{array}$$

$$16,000 \div 8 = 2,000 \leftarrow \text{quotient}$$

$\uparrow$                      $\uparrow$   
**dividend**   **divisor**

Check by using related multiplication sentences.

$$\begin{array}{l} 2 \times 8 = 16 \rightarrow 16 \div 8 = 2 \qquad 200 \times 8 = 1,600 \rightarrow 1,600 \div 8 = 200 \\ 20 \times 8 = 160 \rightarrow 160 \div 8 = 20 \qquad 2,000 \times 8 = 16,000 \rightarrow 16,000 \div 8 = 2,000 \end{array}$$

1.  $90 \div 3$

30

2.  $320 \div 4$

80

3.  $4,800 \div 6$

800

4.  $54,000 \div 9$

6,000

5.  $60 \div 2$

30

6.  $800 \div 4$

200

7.  $40,000 \div 5$

8,000

8.  $72,000 \div 8$

9,000

9. A sticker maker packed 45,000 stickers in 9 boxes.  
How many stickers were in each box?

5,000 stickers

10. A cereal company packs 6 boxes of cereal in a crate.  
How many crates are needed to store 3,000 boxes of cereal?

500 crates

11. Marty has 420 stamps in his collection. If he puts 7 stickers on  
each page of his stamp album, how many pages will he use?

60 pages