

# Using Patterns to Divide

You can use basic facts and patterns to divide mentally.

**Using basic facts**

What is  $350 \div 70$ ?

Think:  $350 \div 70$  is the same as 35 tens  $\div$  7 tens.

$$35 \div 7 = 5$$

$$\text{So, } 350 \div 70 = 5.$$

**Using patterns**

What is  $5,400 \div 60$ ?

$5,400 \div 60$  is the same as  $540 \div 6$ .

$$54 \div 6 = 9, \text{ so } 540 \div 6 = 90.$$

$$\text{So, } 5,400 \div 60 = 90.$$

Find each quotient. Use mental math.

1.  $280 \div 70 =$  \_\_\_\_\_

2.  $320 \div 40 =$  \_\_\_\_\_

3.  $360 \div 60 =$  \_\_\_\_\_

4.  $7,200 \div 80 =$  \_\_\_\_\_

5.  $9,000 \div 30 =$  \_\_\_\_\_

6.  $4,800 \div 80 =$  \_\_\_\_\_

7.  $2,000 \div 40 =$  \_\_\_\_\_

8.  $5,600 \div 70 =$  \_\_\_\_\_

9. How is dividing 250 by 50 the same as dividing 2,500 by 500?

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10. Explain how you can mentally determine that  $35,000 \div 70 = 500$ .

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