

Name _____

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.

$$35 \div 7 = 5$$

So, $350 \div 70 = 5$.

Using patterns

What is $5,400 \div 60$?

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

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

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?

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