## 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 $540 \div 6$.
$54 \div 6=9$, so $540 \div 6=90$.
So, $5,400 \div 60=90$.

Find each quotient. Use mental math.

1. $280 \div 70=$ $\qquad$
2. $320 \div 40=$
3. $7,200 \div 80=$ $\qquad$
4. $360 \div 60=$ $\qquad$ 6. $4,800 \div 80=\square$
$\qquad$
5. $9,000 \div 30=$ $\qquad$
6. $2,000 \div 40=$ $\qquad$
$\qquad$
7. How is dividing 250 by 50 the same as dividing 2,500 by 500 ?
$\qquad$
$\qquad$
$\qquad$
8. Explain how you can mentally determine that $35,000 \div 70=500$.
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# Problem Solving: Draw a Picture and Write an Equation 

Draw a picture and write an equation. Then solve.

1. Tommy paid $\$ 39$ to fill up the gas tank in his car. If one gallon of gas costs $\$ 3$, how many gallons of gas did Tommy put in?
2. To prepare for the brunch, Ivana needs to place 8 muffins in each basket. If she has 115 muffins, how many baskets will she need?
3. Write a real-world problem that you can solve by writing an equation.

The answer to the problem must be 6 .
$\qquad$
$\qquad$
4. The perimeter is the distance around an object. The perimeter of a square is 84 centimeters. What is the length of one side of the square?
A 75 cm
B 42 cm
C 21 cm
D 14 cm
5. Writing to Explain A perfect score on a quiz is 100. Mrs. Frisoli gives students 1 point for putting their name on the paper. If there are only 9 questions on the quiz, how much is each question worth? Explain how you found your answer.

