

Name _____

Divide by Multiples of Ten**Essential Question** How can you use patterns to divide by multiples of ten?**UNLOCK the Problem** REAL WORLD

A charity asked 10 volunteers to hand out 2,000 flyers about a fund-raising event. Each volunteer will get the same number of flyers. How many flyers will each volunteer hand out?

You can use patterns and a basic fact to divide by multiples of ten.

Example 1 Find $2,000 \div 10$.

Think: I know that $2 \div 1 = 2$, so $20 \div 10 = 2$.

$$20 \div 10 = 2$$

$$200 \div 10 = 20$$

$$2,000 \div 10 = 200$$

So, each volunteer will hand out _____ flyers.

Describe the pattern used to divide 2,000 by 10.

Example 2 Find $2,800 \div 40$.

$28 \div 4 = 7$, so $280 \div 40 = \underline{\quad}$.

$$2,800 \div 40 = \underline{\quad}$$

Math Talk

Explain how you can use basic facts to help divide by multiples of ten.

Share and Show



1. Find $6,000 \div 20$.

Think: I can use patterns to divide, starting with $60 \div 20$.

$$6 \div 2 = \underline{\hspace{2cm}}, \text{ so } 60 \div 20 = \underline{\hspace{2cm}}.$$

$$600 \div 20 = \underline{\hspace{2cm}}$$

$$6,000 \div 20 = \underline{\hspace{2cm}}$$

Divide. Use a pattern to help.

2. $8,000 \div 20 = \underline{\hspace{2cm}}$

3. $4,000 \div 40 = \underline{\hspace{2cm}}$

4. $1,200 \div 60 = \underline{\hspace{2cm}}$

On Your Own

Divide. Use a pattern to help.

5. $9,000 \div 30 = \underline{\hspace{2cm}}$

6. $5,000 \div 50 = \underline{\hspace{2cm}}$

7. $1,800 \div 60 = \underline{\hspace{2cm}}$

8. $7,000 \div 10 = \underline{\hspace{2cm}}$

9. $3,200 \div 80 = \underline{\hspace{2cm}}$

10. $6,300 \div 90 = \underline{\hspace{2cm}}$

Problem Solving



11. A group of musicians wants to sell a total of 1,000 tickets for 20 concerts. Suppose they sell the same number of tickets for each concert. How many tickets will they sell for each concert? **Explain** how you solved the problem.
