

Name _____ Date _____

Reteach

Multiplication Patterns

EXAMPLE

To multiply by multiples of 10, 100, and 1,000, you can use basic facts and patterns.

Multiply 40×800 .

Start with the basic fact.

$$4 \times 8 = 32$$

Count the number of zeros in each factor and add them together.

$$40 \times 800$$

↑

↑

$$1 \text{ zero} + 2 \text{ zeros} = 3 \text{ zeros}$$

Write that number of zeros in the product.

$$40 \times 800 = 32,000 \text{ or } 32 \times 10^3$$

Complete.

1. 20×60

Basic fact: $2 \times 6 =$ _____

Number of zeros in each factor:

_____ + 1 = _____

Product: $20 \times 60 =$ _____

2. 9×80

Basic fact: _____

Number of zeros in each factor:

0 + _____ = _____

Product: _____

Find each product mentally.

3. $5 \times 9 =$ _____

4. $3 \times 6 =$ _____

5. $4 \times 12 =$ _____

$5 \times 90 =$ _____

$3 \times 60 =$ _____

$40 \times 12 =$ _____

$5 \times 900 =$ _____

$3 \times 600 =$ _____

$400 \times 12 =$ _____

$5 \times 9,000 =$ _____

$3 \times 6,000 =$ _____

$4,000 \times 12 =$ _____

6. $6 \times 60 =$ _____

7. $7 \times \$3 =$ _____

8. $5 \times 40 =$ _____

$60 \times 60 =$ _____

$70 \times \$3 =$ _____

$50 \times 40 =$ _____

$600 \times 60 =$ _____

$700 \times \$3 =$ _____

$500 \times 40 =$ _____

$6,000 \times 60 =$ _____

$7,000 \times \$3 =$ _____

$5,000 \times 40 =$ _____