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	40	$\times$	800		
factor and add them together.	↑		↑		
	1 zero	+	2 zeros	=	3 zeros
Write that number of zeros in the product.	40	$\times$	800	=	32,000 or 32×10^3

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. $5 \times 9 =$ _____

$5 \times 90 =$ _____

$5 \times 900 =$ _____

$5 \times 9,000 =$ _____

4. $3 \times 6 =$ _____

$3 \times 60 =$ _____

$3 \times 600 =$ _____

$3 \times 6,000 =$ _____

5. $4 \times 12 =$ _____

$40 \times 12 =$ _____

$400 \times 12 =$ _____

$4,000 \times 12 =$ _____

6. $6 \times 60 =$ _____

$60 \times 60 =$ _____

$600 \times 60 =$ _____

$6,000 \times 60 =$ _____

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

$70 \times \$3 =$ _____

$700 \times \$3 =$ _____

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

8. $5 \times 40 =$ _____

$50 \times 40 =$ _____

$500 \times 40 =$ _____

$5,000 \times 40 =$ _____