Name _____

Exponents

2-11 RETEACH

Sometimes when you multiply, you use the same number as a factor more than once. You can use exponent form to show this.

$3 \times 3 \times 3 \times 3 \times 3 \times 3 = 3^6$

Write the number of times the factor is used as the *exponent*.

Write the factor as the *base*.

To write $3 \times 3 \times 3 \times 3 \times 3 \times 3$, or 3^6, in standard form, multiply 3 six times.

$3 \times 3 \times 3 \times 3 \times 3 \times 3 = 3^6 = 729$

Write in exponent form and in standard form.

1. $4 \times 4 \times 4$

Exponent Form: _____ Standard Form: _____

What is the base? _____

What is the exponent? _____

2. $2 \times 2 \times 2 \times 2 \times 2 \times 2$

Exponent Form: _____ Standard Form: _____

What is the base? _____

What is the exponent? _____

3. $10 \times 10 \times 10 \times 10$

Exponent Form: _____ Standard Form: _____

What is the base? _____

What is the exponent? _____

4. 5×5

Exponent Form: _____ Standard Form: _____

What is the base? _____

What is the exponent? _____

5. $3 \times 3 \times 3 \times 3 \times 3$

Exponent Form: _____ Standard Form: _____

What is the base? _____

What is the exponent? _____