

## Intro to Exponents

- New

Exponent Notation

$$\underbrace{8 \cdot 8 \cdot 8 \cdot 8}_{4} =$$

4 multiplied 3 times

"\_\_ to the \_\_ power"

$$\underbrace{b \cdot b \cdot b \cdot \dots \cdot b}_n =$$

\_\_ multiplied \_\_ times

"\_\_ to the \_\_ power"

(General Exponent Notation)

Find the value of each exponential expression by rewriting as a product.

$$(C) \quad 2^5$$

- ◆ A number with *NO* exponent implies an exponent of \_\_\_\_,  $b = b$ —.

## TOPIC: EVALUATING EXPONENTS

### PRACTICE

Rewrite each product as an exponential expression.

(A)  $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$

(B)  $\left(\frac{2}{9}\right) \times \left(\frac{2}{9}\right) \times \left(\frac{2}{9}\right) \times \left(\frac{2}{9}\right) \times \left(\frac{2}{9}\right)$

### PRACTICE

Evaluate the following.

(A)  $13^1$

(B)  $7^3$

(C)  $2^8$

### EXAMPLE

Evaluate the following.

(A)  $\left(\frac{1}{3}\right)^4$

(B)  $\left(\frac{7}{4}\right)^3$