Name _____

Date _____

Exponents as Cubes

Whenever you use 3 as an exponent, you multiply a base number by itself twice.

Example: $2^3 = 2 \times 2 \times 2$

Remember, you can write this in words as "two to the power of three" OR "two to the third power."
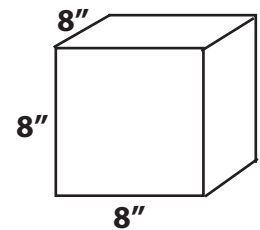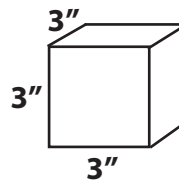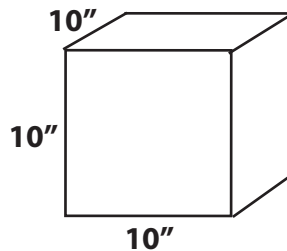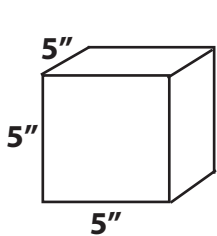
You can also write it as:

Two cubed

How Are Cubes Related to Exponents?
When you "cube" a number you are multiplying it by itself two times. This is also how you find the volume of a cube.

Let's Practice
Part 1

Record the answers for each problem on their answer lines.

Multiplication
Expression: __**5 x 5 x 5**__

Multiplication
Expression: __**10 x 10 x 10**__

Multiplication
Expression: __**3 x 3 x 3**__

Multiplication
Expression: __**8 x 8 x 8**__

Exponent
Expression: __**5^3**__

Exponent
Expression: __**10^3**__

Exponent
Expression: __**3^3**__

Exponent
Expression: __**8^3**__

Value: __**125**__

Value: __**1000**__

Value: __**27**__

Value: __**512**__

Part 2

Change the written form to its exponent form.

1. Ten cubed __**10^3**__

2. Five cubed __**5^3**__

3. Four cubed __**4^3**__

4. Nine cubed __**9^3**__