**Exponents Guided Notes**

The \_\_\_\_\_\_\_\_ tells you how many times a number, the \_\_\_\_\_\_\_, is used as a factor.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$$5^{3}$$

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You call a number that is expressed using an exponent a \_\_\_\_\_\_\_\_\_\_\_\_.

$5^{3}$ is read “five to the third power”.

Example 1: Write 3 x 3 x 3 x 3 using an exponent.

Example 2: Write 6 x 6 x 6 x 6 x 6 using an exponent.

Practice

Write using an exponent.

1. 2 x 2 x 2 x 2
2. 5 x 5
3. 7 x 7 x 7 x 7 x 7
4. 10 x 10 x 10

Example 3: Simplify $4^{3}$.

Example 4: Simplify $6^{4}$.

Practice

Simplify

1. $5^{3}$
2. $2^{5}$