**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. $2^{5}$