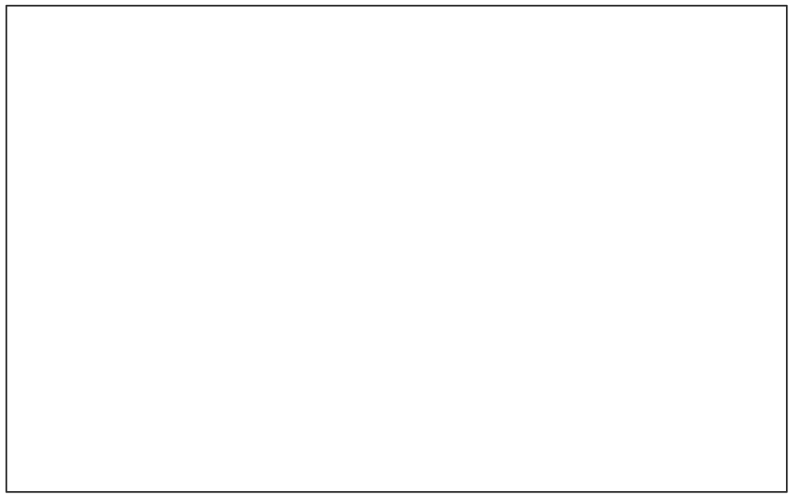
Properties of Exponents in Chapter 8



Examples of some of the rules of exponents we'll see in this Chapter

Simplify each.

1.

2.

3.

Simplify each.

4.

5.

6.

Simplify each.

7.

8.

Write each number as a power of 10 using positive exponents.

1.

2.

Sec 8-2: Scientific Notation

$25{,}000 = 2.5 \times 10^{4}$

Examples of numbers written in Scientific Notation.

Is each number written in scientific notation?

1. _____ 2. _____

3. _____

Does each scientific notation number represent a "big" number or a "small" number?

_____

1. _____ 2. _____

3. _____ 4. _____

When in Scientific Notation: SMALL BIG

A negative exponent means a _____ number

A positive exponent means a _____ number

Write each number in Scientific Notation:

1. _____

2. _____

Write each number in Standard Notation
(also known as Decimal Notation)

1. 2.

3. 4.

Each number is NOT in Scientific Notation. Rewrite it so that it IS in Scientific Notation.

1. 2.