

Class Notes

Topic:

Questions / Main Ideas:

Name: _____
Class: _____
Date: _____
Period: _____

Notes:

What is scientific notation?

Scientific Notation is a _____ way to write really _____
345,000,000,000,000,000
or really _____ numbers.
0.000000000786

Why scientific notation?

There are 602,000,000,000,000,000,000
Atoms of copper in 23 Pennies!!
This is equivalent to 6.02×10^{23}
Positive exponents represent very BIG numbers and negative
exponents are very small numbers.

How do I write numbers in scientific notation?

Example: 920,000,000

Step 1: Move the decimal point until
Only _____ digit is placed
to the left of the _____

Step 2: Write the new decimal number.

Step 3: _____ the number of places the decimal moved.
This will become the _____



The decimal
moved _____ times!

Step 4: If the decimal was moved to the _____ the exponent is

_____ If the decimal was moved to the _____ the exponent is

920,000,000. = _____

Let's try some practice!

- 781,000,000,000 m = _____
- 6,045,800,000 g = _____
- 0.000000509 L = _____
- 0.0000529 kg = _____