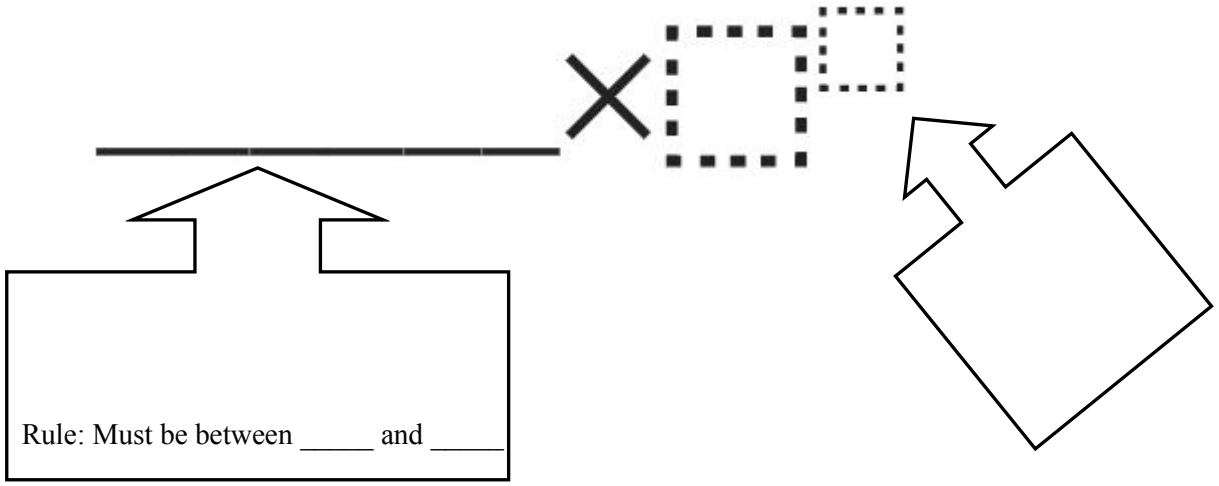
Name _____ Date _____ Period ____

0.5 Scientific Notation Notes

Scientific notation looks like this:



Examples of Scientific Notation:

Non-examples of Scientific Notation:

Converting between Notations
Note: we are not changing the *value* of a number, only it's *appearance*.

Positive powers mean _____

Negative powers mean _____

How to Convert Scientific Notation to Standard Notation

Always, always, always think first: "_____?"

Examples: $2.5 \times 10^5 =$

$2.345 \times 10^{-7} =$

How to Convert Standard Notation to Scientific Notation

Ask yourself "_____?"

After you finish the problem, look back and ask "_____?"

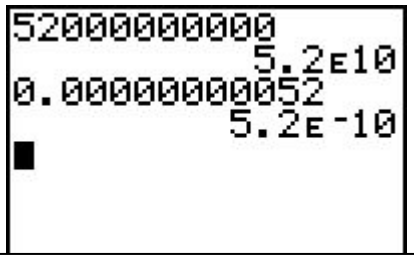
Examples: 0.0001234 =

78,300 =

Name _____ Date _____ Period ____

Calculators

Calculators are pretty nifty at sci notation, but you have to be *careful!*

Your calculator might look like this----------> 

Take a moment to write down what your calculator looks like when you *get* scientific notation from it:

If you answer "5.2", not only are you wrong, but you have NO IDEA HOW BIG OR SMALL YOUR ANSWER SHOULD BE!!

(Angry Mr. Newman)

Advanced tip: there's (usually) a fast way to type scientific notation in on the calculator. Draw the button here for what your calculator's "times 10 to the" button looks like:

(But on the *sci notation* quiz, I expect you to be able to convert & compute without a calculator!)