SNC 1DI Date: _____

Working with Numerical Data

RULES FOR ROUNDING OFF

- The typical rule taught is that you _____
  _____
- When rounding, examine the figure following (_____) the figure that is to be last
- This figure you are examining is the first figure to be _____
- Rules:

1.

2.

455.67 to four digits = _____
7987.782 to six digits = _____
86.47768 to two digits = _____
24.8514 to three digits = _____

THE METRIC SYSTEM

- There is only ONE unit of length →
- There is only ONE unit of mass →
- There is only ONE unit of liquid volume →

				BASE UNIT				

1. **If you are converting a number to a smaller unit, the number will get larger.**
   Therefore, you should move the decimal to the right to make the number larger.
   Count the number of spaces to see how many places you move the decimal.

   Eg. 75 m = cm

   440 g = mg

   10 kL = L

2. **If you are converting a number to a larger unit, the number will get smaller.**
   Therefore, you should move the decimal to the left to make the number smaller.
   Count the number of spaces to see how many places you move the decimal.

   Eg. 250 cm = m

   45mL = L

   1500mg = g

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SIGNIFICANT FIGURES

There are three rules for determining how many significant figures are in a number:

1.

2.

3.

Examples: How many significant digits in the following?

a. 3.0800

b. 0.00418

c. 916000

d. 0.000780098

e. 0.00800

f. 7.0000001

SCIENTIFIC NOTATION

Sometimes numbers may be too large or too small. In these cases we may use scientific notation to rewrite our numbers. For example:

a. 900000

b. 6780000

c. 0.000045

d. 0.000000000089