**Worksheet #1**

**Name: Period: Seat#:**

 **1)** Rearrange to solve for the variables using the expression below.

a = x = z =

b = y =

**Solve the problems. The “E” stands for “ x10” so 3E6 means 3x106, you can use a calculator!**

**2)** 3E6 x 2E2 = **6)** = $\frac{5E^{11}}{6E^{3}}$ =

**3)** 6.4E15 x 7.3E23 =

**4)** 9.1E-2 x 4.4E-6 = **7)** = $\frac{1E^{20}}{1E^{10}}$ =

**5)** = $\frac{4.8E^{-19}}{2.1E^{-5}}$ =

-------------------------------------------------------------------------------------------------------------------------------

**8)** 1.01E2 + 2.00E7 = **11)** 7.6E4 – 3.6E3 =

**9)** 3.27E9 + 6.12E-7 = **12)** 8.0E5 – 6.4E1 =

**10)** 2E-31 + 4E-60 = **13)** 2.1E-23 – 2.1E-11 =

-------------------------------------------------------------------------------------------------------------------------------

**Convert units then put the answer in scientific notation.**
**14)** 75 mL = \_\_\_\_\_\_\_\_\_\_\_ L \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ L

**Forgot how?**
Metric Conversions:
[tinyurl.com/bcva5sds](https://tinyurl.com/bcva5sds)

Scientific Notation:
[tinyurl.com/55s5b36n](https://tinyurl.com/55s5b36n)

**15)** 82 m = \_\_\_\_\_\_\_\_\_\_\_\_ cm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm

**16)** 0.1298 km \_\_\_\_\_\_\_\_\_\_\_\_ mm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mm

-------------------------------------------------------------------------------------------------------------------------------

**17)** Use the internet to look up the equation to solve for the physical property of DENSITY.

**Density =**

**18)** Calculate the mass for an object with a density of 2 g/mL and a volume of 6 mL. Show all work
 and make sure to include units next to the numbers you plug in.