

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Seat#: \_\_\_\_\_

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

$$\frac{ab}{xyz} = 1$$

a = \_\_\_\_\_

x = \_\_\_\_\_

z = \_\_\_\_\_

b = \_\_\_\_\_

y = \_\_\_\_\_

Solve the problems. The "E" stands for "x10" so  $3E^6$  means  $3 \times 10^6$

2)  $3E^6 \times 2E^2 =$

6)  $\frac{5E^{11}}{6E^3} =$

3)  $6.4E^{15} \times 7.3E^{23} =$

4)  $9.1E^{-2} \times 4.4E^{-6} =$

7)  $\frac{1E^{20}}{1E^{10}} =$

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

8)  $1.01E^2 + 2.00E^7 =$

11)  $7.6E^4 - 3.6E^3 =$

9)  $3.27E^9 + 6.12E^{-7} =$

12)  $8.0E^5 - 6.4E^1 =$

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

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

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

Forgot how?

Metric Conversions:

<https://tinyurl.com/ydaxvea5>

Scientific Notation:

<https://tinyurl.com/m2vt3fw>

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.