# SPH3U: Physics Math Part A – Scientific Notation

#### Scientific Notation

Numbers that are very large or very small are often expressed in this form for convenience. A sumber septem in orientific notation has two parts which are multiplied."

One part is between 2 and 10 (it can be 1 or bigger but must be less than 10) The other part is a power of ten

To charge a number into stientific rotation

- 1. place a decimal after the first non zero digit looking from the left!
- 2. multiply by the appropriate power of ten

#### Examples

- Change to scientific notation

First 4.65 and then 4.65 x 10° or 465 x 4.65 x 10°

(6) 0.003 2

First 3.2 and then 3.2 x 10<sup>-2</sup> or 0.003.2 x 3.2 x 20<sup>-5</sup>

 Write the following in scientific notation. Check to see that you can get the same answers using the "EE" or "EXP" button on your calculator.

- a) 604 6.04-102
- b) 403 4.03 102
- c) 710,000 -> 7.1-10.%
- d) 0.0504 ~ 5.64 = 10 2
- e) 0.0038 3.8 × 10 3
- D 0.043 -> >1-3 × 10-2
- g) 0.000 031 3.1 x 10 5
- h) 4.7 4.5
- 2. Write the following in standard notation. Again, check to see that you can get the same answers on your calculator.
- a) 8.1 x 103 = 15100
- b) 6.1 x 107 = 61000000 c) 7.6 x 105 = 7600000
- d) 9.3 x 10" = 9.3

- e) 4.7 x 104 = 0.00047
- p) 2.3 x 10<sup>-2</sup> = 0.00 3 g) 4.7 x 10<sup>-2</sup> 0.000000011 h) 4.03 x 10<sup>-1</sup> = 0.00 3

### Using Metric Prefixes with Units:

ariga (G)	(Nf)	kille (k)	hocio (h)	deca (da)	deci (d)	conti (c)	matti (m)	migro (g)	manu- (no -	pieco (p)
100	DO*	107	10"	10"	107	107	10.7	104	100°	800

Example #1: 7 km (kilometers) = 7×10° meters (Note that kilo is the prefix, and meters is the base unit) Example #2: 367 pg (picograms) =  $367 \times 10^{-13}$  grams =  $3.67 \times 10^{2} \times 10^{-13}$  grams =  $3.67 \times 10^{-16}$  g (grams)

### Complete the following:

- a)  $72.3 \text{ km} = 72.3 \times 10^{3} = 7.23 \times 10^{2} \times 10^{-10}$  m d)  $2533.6 \text{ µm} = 2533.6 \times 10^{-3} \times 10^{-4} \text{ ps}^{-2.533.6 \times 10^{-3}} \text{ m}$
- b) 4820 mg = 4030 × 10<sup>-3</sup> × 10<sup>-3</sup> × 4,820 g 0) 2533 GAMIX 10<sup>-6</sup> M
- g e) 0.345 dg = 0.345 × 10 1 × 10 1 3.45×10 2

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# **A Gutmann**

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