

# 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 **number written in scientific notation** has **two** parts which are **multiplied**.

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

To **change** a number into **scientific notation**:

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

(a) 465

First 4.65 and then  $4.65 \times 10^2$  or  $465 = 4.65 \times 10^2$

(b) 0.0032

First 3.2 and then  $3.2 \times 10^{-2}$  or  $0.0032 = 3.2 \times 10^{-3}$

1. 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)  $604 \rightarrow 6.04 \times 10^2$

b)  $403 \rightarrow 4.03 \times 10^2$

c)  $710,000 \rightarrow 7.1 \times 10^5$

d)  $0.0504 \rightarrow 5.04 \times 10^{-2}$

e)  $0.0038 \rightarrow 3.8 \times 10^{-3}$

f)  $0.043 \rightarrow 4.3 \times 10^{-2}$

g)  $0.000031 \rightarrow 3.1 \times 10^{-5}$

h)  $4.3 \rightarrow 4.3 \times 10^0$

2. Write the following in standard notation. Again, check to see that you can get the same answers on your calculator.

a)  $8.1 \times 10^3 = 8,100$

b)  $6.1 \times 10^7 = 61,000,000$

c)  $7.6 \times 10^5 = 760,000$

d)  $9.3 \times 10^1 = 93$

e)  $4.7 \times 10^{-4} = 0.00047$

f)  $2.3 \times 10^{-2} = 0.023$

g)  $4.7 \times 10^{-7} = 0.00000047$

h)  $4.03 \times 10^3 = 4,030$

### Using Metric Prefixes with Units:

giga (G)	mega (M)	kilo (k)	hecto (h)	deca (da)	deci (d)	centi (c)	milli (m)	micro ( $\mu$ )	nano (n)	pico (p)
$10^9$	$10^6$	$10^3$	$10^2$	$10^1$	$10^{-1}$	$10^{-2}$	$10^{-3}$	$10^{-6}$	$10^{-9}$	$10^{-12}$

**Example #1:** 7 km (kilometers) =  $7 \times 10^3$  meters (Note that kilo is the prefix, and meters is the base unit)

**Example #2:** 367 pg (picograms) =  $367 \times 10^{-12}$  grams =  $3.67 \times 10^2 \times 10^{-12}$  grams =  $3.67 \times 10^{-10}$  g (grams)

3. Complete the following:

a)  $72.3 \text{ km} = 72.3 \times 10^3 = 7.23 \times 10^4 \text{ m}$

d)  $2533.6 \text{ } \mu\text{m} = 2533.6 \times 10^{-6} \text{ m} = 2.5336 \times 10^{-3} \text{ m}$

b)  $4820 \text{ mg} = 4820 \times 10^{-3} = 4.820 \text{ g}$

e)  $0.345 \text{ dg} = 0.345 \times 10^{-1} \times 10^{-1} = 3.45 \times 10^{-3} \text{ g}$

d)  $2533.6 \text{ } \mu\text{m} \times \frac{10^{-6} \text{ m}}{1 \text{ } \mu\text{m}} = 2.5336 \times 10^{-3} \text{ m}$

# Physics Fundamentals 4answers

**Peipei Pang**



## Physics Fundamentals 4answers:

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