



## Unit 1: Scientific Notation Worksheet

1. Write the following in **proper scientific notation** and state the **number of significant digits**:

a) 0.008

e) 0.000065

b) 7,120,000

f) 9,470,000,000

c) 325

g) 0.00000000082

d)  $43.1 \times 10^5$

h)  $17.6 \times 10^{-4}$

2. Perform the following calculations. Be sure to write your answer in proper scientific notation:  
(for the test, physics 1 honors will **NOT** be allowed to use a scientific calculator)

a.  $200 \times 300$

h.  $(8.0 \times 10^5) / (4.0 \times 10^3)$

b.  $4.0 / 50$

i.  $(9.0 \times 10^{-2}) / (3.0 \times 10^{-1})$

c.  $0.016 \times 3.0$

j.  $(2.4 \times 10^{-1}) / (4.0 \times 10^{-3})$

d.  $7.8 \times 812$

k.  $(5.0 \times 10^4) + (3.0 \times 10^4)$

e.  $(4 \times 10^3) (2 \times 10^4)$

l.  $(7.2 \times 10^3) + (5.8 \times 10^2)$

f.  $(3.2 \times 10^{-5}) (3 \times 10^4)$

m.  $(8.74 \times 10^2) - (2.3 \times 10^3)$

g.  $(6.0 \times 10^2) (7.0 \times 10^4)$

n.  $(2.4 \times 10^{-1}) - (4.0 \times 10^{-3})$