Name ***Period*** ***Date***

Unit 1: Scientific Notation Worksheet

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

a) 0.008

b) 7,120,000

c) 325

d) 43.1×10^{5}

e) 0.000065

f) 9,470,000,000

g) 0.00000000082

h) 17.6×10^{-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. 200×300

b. $4.0 / 50$

c. 0.016×3.0

d. 7.8×812

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

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

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

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

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

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

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

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

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

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