Worksheet Scientific Notation/Significant Figures

#2

1. Convert each of the following into scientific notation.

727 _____

172000 _____

0.000984 _____

200.0×10^2 _____

0.014×10^2 _____

2560000000000000000000000000000000 _____
(use 4 sig. fig.)

2. Convert each into decimal form.

1.56×10^4 _____

3.6×10^{-2} _____

736.9×10^5 _____

0.0059×10^5 _____

0.00059×10^{-1} _____

3. Calculate the following. Give the answer in correct scientific notation.

a) 2.34×10^{65}
$+ 9.2 \times 10^{66}$

b) 313.0
$- 1.2 \times 10^3$

4. Calculate the following. Give the answer in correct scientific notation.

a) $8.95 \times 10^{76} / 1.25 \times 10^{56}$

b) $(4.5 \times 10^{29})(2.45 \times 10^{100})$

5. Give the number of significant figures in each of the following.

a) 1.05 g _____

b) 0.0003040 mm _____

c) 29000 $\pm$ 10 ft _____

d) 0.90×10^{45} L _____

e) The number of eggs (12) that make up a dozen _____

6. Determine the answer for each of the following. Be sure to use the correct number of significant