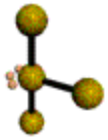

Scientific Notation/Significant Figures Worksheet Answers

1. Convert each of the following into scientific notation.

7.27×10^{2}

1.72000×10^{5}

9.84×10^{-4}

2.000×10^{4}

1.4

2.560×10^{33}

2. Convert each into decimal form.

15600 $\pm$ 100

0.036

73690000 $\pm$ 10000

590 $\pm$ 10

0.000059

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

a) **9.434×10^{66}** **b)** **-8.87×10^{2}**

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

a) **7.16×10^{20}** **b)** **1.1025×10^{130}**

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

a) 1.05 g 3

b) 0.0003040 mm 4

c) 29000 ± 10 ft 4

d) 0.90×10^{45} L 2

e) the number of eggs (12) that make up a dozen infinite

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

a) 45.3

b) 5.04

c) 9.9×10^{3}

d) 3

7. Round each of the following to 3 significant figures.

77.1

0.000234

2.90×10^{21}

6.30×10^{6}

10.2