Significant Figures – Another Worksheet

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

a) 10.0005 g b) 0.003423 mm c) 2900 ft d) 8.9×10^5 L

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

a) 27.34
6.90
+ 13.124

b) 2.8023
- 4.762

c) 0.32 x 14.50 x 120 =

d) 24.1 / 0.005 =

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

a. 707.5 _____

b. 2,300.2 _____

c. 0.0003350 _____

d. 10.26730 _____

e. 18.95×10^{21} _____

4. Calculate the following using the correct number of significant figures.

a) 2.34×10^{47}
$+ 9.2 \times 10^{46}$

b) 9132.0
$- 1.6 \times 10^3$

5. Calculate the following using the correct number of significant figures.

a) $(1.54 \times 10^{58})(3.5 \times 10^{60})$

b) $(7.9 \times 10^{34}) / (8.32 \times 10^{23})$

6. Express the following numbers in scientific notation.

a) 810,000 g b) 0.000634 g c) 60,000,000 g

7. State the number of significant digits in the following measurements.

a) 3218 kg b) 60.080 kg c) 0.000534 kg

8. Add/Subtract as indicated and round the answer using the correct number of significant digits.

a) 85.26 g + 4.7 g b) 1.07 km + 0.608 km c) 186.4 kg – 57.83 kg

9. Multiply/Divide as indicated and round the answer using the correct number of significant digits.

a) (5,108 m)(4.2107 m)

c) (2.6×10^4 cm)(9.4×10^3 cm)

b) (1.67×10^{-2} km) ÷ (8.5×10^{-6} km)