

Topic 1: Significant Figures

1. Determine the number of significant figures in each of the following:

a. 0.7540 _____

b. 12500 _____

c. 1000.01 _____

d. 1200 _____

e. 1.04×10^3 _____

f. 0.0080050 _____

2. Perform the following calculations and round to the appropriate number of significant figures:

a. $34.66 + 333.0$ _____

b. $1.23 + 9.66$ _____

c. $455 - 1.22$ _____

d. 18.2×1.998 _____

e. $10.2 \div 1.34$ _____

f.
$$\frac{100.23 + 59.4}{5.22}$$

3. Round each of the following numbers to three significant figures:

a. 167.789 _____

b. 0.00000445345 _____

c. 25.0545 _____

d. 3.1415926536 _____

e. 8504.0435 _____

f. 14.4355 _____