

1) **CLEARLY** write the number of significant figures in each of the numbers below in the blank.

a) _____ 5.20×10^2

b) _____ 240

c) _____ 0.0010060

2) A student performed several measurements and obtained the numbers below. Before she turned the answers in she realized that her measurements should only have **3** significant figures. In the spaces below, re-write each number with the correct number of significant figures.

a) _____ 0.00285792

b) _____ 1.92506×10^{-2}

3) Perform the following arithmetic operations. Write the answer with the proper number of significant figures in the space provided.

a) _____ $\frac{(250)(0.025)}{1.005}$

b) _____ $15.001 + 0.025 + 4002.81$

4) Circle **all** that apply to the data listed below if the true value is 1060.7

6095.7, 5200.2, 7600.5, 9002.2, 12006.3

The data has:

Low Precision

High Precision

Low Accuracy

High Accuracy

Can't determine from the information given

1) Circle **all** that apply to the data listed below if the true value is 795?

205, 209, 203, 199, 198

The data has:

- Low Precision High Precision
Low Accuracy High Accuracy
Can't determine from the information given

2) Perform the following arithmetic operations. Write the answer with the proper number of significant figures in the space provided.

a) _____ $\frac{(920)(0.050)}{2.001}$

b) _____ $75.000 + 0.1257 + 2952.81$

3) Write the number of significant figures in each of the numbers below in the blank.

a) _____ 9.900×10^{-2}

b) _____ 3600

c) _____ 0.090100

4) A student performed several measurements and obtained the numbers below. Before she turned the answers in she realized that her measurements should only have **4** significant figures. In the spaces below, re-write each number with the correct number of significant figures.

a) _____ 0.0096359724

b) _____ 8.363506×10^{-2}