

Significant Figures Practice:

1. How many significant figures are in each number below?

- a.) 0.052 **2** b.) 45000 **2** c.) 0.007560 **4** d.) 4.40×10^4 **3** e.) 5067.00 **6**

2. Add or subtract the following values and round your answer to the correct number of significant figures.

- | | | | |
|---|--|--|---|
| a) $\begin{array}{r} 52.01 \\ + 8.11 \\ \hline 60.12 \end{array}$ | b) $\begin{array}{r} 152.3 \\ - 108.420 \\ \hline 43.88 = \\ 43.9 \end{array}$ | c) $\begin{array}{r} 29.0054 \\ - 4.21 \\ \hline 24.7954 = \\ 24.80 \end{array}$ | 4) $\begin{array}{r} 8.98 \\ 47.46 \\ + 0.7 \\ \hline 57.14 = 57.1 \end{array}$ |
|---|--|--|---|

3. Multiply or divide the following values and round your answer to the correct number of significant figures.

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|---|---|
| a.) $434.0 \times 29.118 = 12637.212 = 12640$ | b.) $878.231 \div 45 = 19.51624444 = 20.$ or 2.0×10^1 |
| c.) $1455.54 \times 0.1213 \times 87.0 = 15360.45917 = 15400$ | d.) $29.801 \div (2.0 \times 10^3) \div 0.888 = .0167798423 = .017$ |