

**Chemistry 120**  
**Significant Figures Worksheet**

For each of the following, fill in the blank with the appropriate answer to the correct number of significant figures. In multi-step problems, show the non-significant figures you are carrying forward by one of the methods shown in class. Answers are given at the end of this worksheet.

1. 
$$\begin{array}{r} 134.991 \\ + 42.11 \\ \hline \end{array}$$
2. 
$$\begin{array}{r} 134.991 \\ - 42.11 \\ \hline \end{array}$$
3. 
$$\begin{array}{r} 134.991 \\ \times 42.11 \\ \hline \end{array}$$
4. 
$$\frac{134.991}{42.11} =$$
  
5. 
$$\begin{array}{r} 1.37 \times 10^{-3} \\ + 5.89 \times 10^{-5} \\ \hline \end{array}$$
6. 
$$\begin{array}{r} 1.37 \times 10^{-3} \\ - 5.89 \times 10^{-5} \\ \hline \end{array}$$
7. 
$$\begin{array}{r} 1.37 \times 10^{-3} \\ \times 5.89 \times 10^{-5} \\ \hline \end{array}$$
8. 
$$\frac{1.37 \times 10^{-3}}{5.89 \times 10^{-5}} =$$
  
9. 
$$\frac{(888.300 + 31.019)}{1.344 \times 10^4} = \frac{\quad}{1.344 \times 10^4} =$$
10. 
$$\frac{e\sqrt{2.00}}{\pi} = \frac{e \times \quad}{\pi} =$$
  
11. 
$$\frac{(3.03 \times 10^{-8} - 3.019 \times 10^{-9})}{1.4004 \times 10^4} = \frac{\quad}{1.4004 \times 10^4} =$$
  
12. 
$$\frac{136000. \times 0.000322 \times 273.15}{0.082 \times 4200. \times 129.2} =$$
13. 
$$63.54 \left( \frac{3.22 \times 10^{24}}{6.022 \times 10^{23}} \right) =$$
  
14. 
$$\sqrt{\frac{(0.0158 + 1.003)}{1.777 \times 10^{-3}}} = \sqrt{\frac{\quad}{1.777 \times 10^{-3}}} =$$