Extra Scientific Notation and Significant Figures Problem

Aug 23, 2022

Scientific Notation

- 1) Perform the following calculations without your calculator. Report to 2 significant figures.
- a) $(4.0 \times 10^{-2})(1.5 \times 10^4)$
- b) $(3.0 \times 10^5)^2$
- c) $1.8 \times 10^4 8.9 \times 10^1$

Number of Significant Figures

- 2) Determine te number of significant figures in the following:
- a) 0.060580
- b) 6709.201
- c) 14800

Combining Operations and Significant Figures

- 3) Using a calculator, express the answers to the following calculations with the proper number of significant figures:
- a) $\frac{1202}{14.83+7.6}$
- b) $\frac{1.0\times10^{-2}g-1.2\times10^{-3}g}{1.579\times10^{-1}cm}$
- c) $(9.2 \times 11.7) + 5.98$
- d) $(6.2g/mL \times 1.95mL) + 0.73g$