

Homework Part IV

Percent Error

1. Calculate the percent error for each trial if the accepted value is 1.449 g/cm^3 .

Trial 1: -0.19 g/cm^3
Trial 2: $+0.09 \text{ g/cm}^3$
Trial 3: -0.14 g/cm^3

2. Calculate the percent error for each trial if the accepted value is 25.5 grams.

Trial 1: -5.5 grams
Trial 2: $+5.6 \text{ grams}$
Trial 3: $+6.0 \text{ grams}$

Scientific Notation to Standard Numbers

1. 8.348×10^6
2. 3.402×10^3
3. 7.6352×10^{-3}
4. 3.02×10^{-5}

Standard Numbers to Scientific Notation

1. 0.0045834
2. 0.03054
3. 438904
4. 7004300000

Significant Figures

1. 508.0
2. 820400.0
3. 1.0200
4. 807,000
5. 0.04950
6. 0.000482
7. 0.0084
8. 3.1587