

2.E: Measurement and Problem Solving (Exercises)

2.1: Measuring Global Temperatures

2.2: Scientific Notation: Writing Large and Small Numbers

2.3: Significant Figures: Writing Numbers to Reflect Precision

1. Define *significant figures*. Why are they important?
2. Define the different types of zeros found in a number and explain whether or not they are significant.
3. How many significant figures are in each number?
 - a. 140
 - b. 0.009830
 - c. 15,050
 - d. 221,560,000
 - e. 5.67×10^3
 - f. 2.9600×10^{-5}
4. How many significant figures are in each number?
 - a. 1.05
 - b. 9,500
 - c. 0.0004505
 - d. 0.00045050
 - e. 7.210×10^6
 - f. 5.00×10^{-6}
5. Round each number to three significant figures.
 - a. 34,705
 - b. 34,750
 - c. 34,570

2.4: Significant Figures in Calculations

2.5: The Basic Units of Measurement

2.6: Problem Solving and Unit Conversions

2.7: Solving Multi-step Conversion Problems

2.8: Units Raised to a Power

2.9: Density

2.10: Numerical Problem-Solving Strategies and the Solution Map

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