

1 • Matter and Measurement

MATH PRETEST

Show your work for each problem.

- The mass of a paperclip is about 0.525 grams. What is the mass of this paperclip in kg? (Report your answer in scientific notation).
- A liquid has a density of 1.48 g/cm^3 . What volume of liquid has a mass of 5.00 grams?
- The density of aluminum is 2.70 g/cm^3 . If a cube of aluminum weighs 13.5 grams, what is the length of the edge of the cube?
- Convert 15 years to seconds. [Use 365.25 days per year to account for leap years.]
- The number, three hundred fifty thousand, written in scientific notation is best written as
- How many cm^2 are in an area of 4.21 in^2 ?
- In an experiment, you measure the density of aluminum as 2.60 g/cm^3 . The accepted value is 2.70 g/cm^3 . What is the percent error in your measurement?