

Section 1.1 Review

1. Explain, using your own example, why you must always give a unit when reporting a measurement.
2. Draw two columns on your paper. Label the first column *SI* and the second column *English System*. Sort this list and write the units in the correct column: inch, centimeter, yard, teaspoon, milliliter, bushel, gallon, liter, mile, gram, quart, pint, kilometer, pound.
3. Explain two reasons why SI is easier to use than the English System.
4. An external computer flash drive can hold 1 gigabyte of data. How many bytes is this?
5. Which is larger: a megawatt or a kilowatt? How many times larger is it?
6. Put these units in order from smallest to largest: decimeter, meter, kilometer, millimeter, centimeter, nanometer, micrometer.
7. Your friend asks you for a glass of water and you bring her 5 milliliters of water. Is this more or less than what she was probably expecting? Explain your reasoning.
8. The length of a sheet of U.S. standard (letter size) paper is closest to:
 - a. 8 centimeters
 - b. 11 centimeters
 - c. 29 centimeters
 - d. 300 centimeters
9. A nickel weighs about:
 - a. 0.1 gram
 - b. 5 grams
 - c. 50 grams
 - d. 100 grams
10. Why do you suppose the United States still uses the English System for everyday measurements, while almost every other country uses SI? Give several possible reasons.

CHALLENGE

Everyday English and SI Units

How many different ways are English and SI units used to measure everyday things in the United States? Speed is measured in miles per hour (mph). Is that an English or SI unit? Is gasoline sold in English or SI units? What is that unit? Here is a list of things that are commonly measured. Make a chart that shows what unit is most commonly used to measure each thing in the United States, and show whether that unit belongs to the English System or SI. You may be surprised at how much we use *both* systems!

- gasoline
- road map distances
- aspirin/pain reliever tablets
- camera film
- mechanical pencil lead
- skis
- milk
- large soda bottles
- electricity
- time
- body weight