



## Metric vs. Customary Quiz

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

**1. Which units measure the same basic quantities?**

- a. Miles and liters
- b. Gallons and kilograms
- c. Ounces and centimeters
- d. Meters and feet

**2. What is the system by which we can convert between metric and customary units?**

- a. None; it's different for every unit
- b. A base-6 algorithm
- c. A base-10 system
- d. A mix between multiplication and division

**3. How do metric measurements differ from customary measurements?**

- a. Metric measurements are larger than customary measurements
- b. Metric measurements are based on powers of 10; customary measurements are not
- c. Metric measurements are divided into fractions; customary measurements are divided into decimals
- d. Metric measurements are measured in base-6; customary measurements are measured in base-8

**4. A picoliter is three metric units larger than a femtoliter. How many femtoliters are in a picoliter?**

- a. 10
- b. 100
- c. 1,000
- d. 10,000

**5. For the most part, the United States uses the customary system. Under what circumstance might Americans use the metric system?**

- a. Measuring distances between cities and states
- b. Surveying large areas of land
- c. Following cooking recipes
- d. Trading with other countries

**6. Which of the following describes the length of a football field using the metric system?**

- a. 100 yards
- b. Approximately 100 meters
- c. 300 feet
- d. Roughly 1/15 of a mile

**7. If a recipe calls for 3 and 1/4 cups of flour, you can tell that it's using:**

- a. The customary system
- b. The metric system
- c. Both the customary system and the metric system
- d. Neither the customary system nor the metric system

**8. If it's 12 kilometers between your house and your school, how many meters is it between your house and your school?**

- a. 1.2 meters
- b. 120 meters
- c. 1,200 meters
- d. 12,000 meters

**9. Which of the following is a true statement?**

- a. In the customary system, measurements are often expressed as decimals
- b. In the metric system, measurements are often expressed as fractions
- c. In the customary system, measurements are often expressed as fractions
- d. Fractions are equally common in both the metric and customary systems

**10. If a granola bar has 5.7 grams of protein in it, how many centigrams of protein does it contain?**

- a. 57
- b. 0.57
- c. 570
- d. 5,700