1. Which statement best describes the significance of the number 10 in the metric system?
   a. There are 10 base units.
   b. There are 10 metric prefixes.
   c. The system is based on multiples of 10.
   d. The system is used by 10 countries.

2. Which mathematical operation is most closely associated with the function of a metric prefix?
   a. Addition
   b. Multiplication
   c. Subtraction
   d. Exponentiation

3. Which unit is best suited for measuring the volume of a test tube?
   a. Milliliter
   b. Liter
   c. Dekaliter
   d. Kiloliter

4. A dekameter is best suited for measuring which distance?
   a. The earth to the sun
   b. A cross-country drive
   c. The circumference of the earth
   d. The length of a city block

5. Which two units are best suited for measuring the dimensions of this object?
   a. Centimeter and liter
   b. Centimeter and gram
   c. Millimeter and milliliter
   d. Millimeter and decigram

6. What is the most logical explanation for why "kilo" is a more important prefix to remember than "tera" (the metric prefix for 1 trillion)?
   a. Units with fewer 0's are easier to convert
   b. Quantities of thousands are more common than quantities of trillions
   c. "Kilo" can be added to more base units than "tera"
   d. The term "kilo" was invented earlier than the term "tera"

7. Why does “Ketchup helps dinosaurs devour chunky meals” not work as a memory aid for the six common metric prefixes?
   a. It's too long
   b. It doesn't mention the metric system
   c. It's too difficult to remember
   d. It doesn't have a placeholder for the base unit

8. What is the relationship between a decigram and a dekagram?
   a. A dekagram is 10 times as large as a decigram
   b. A dekagram is one-tenth as large as a decigram
   c. A dekagram is 100 times as large as a decigram
   d. A decigram is 100 times as large as a dekagram

9. How many places would the decimal move in a conversion from kilograms to milligrams?
   a. 1,000
   b. 10
   c. Six
   d. Five

10. Which conversion is most similar to the conversion from hectometers to meters?
    a. Hectometers to kilometers
    b. Kilograms to dekagrams
    c. Millimeters to centimeters
    d. Deciliters to liters