

Metric System Pretest

Name: _____

Date: _____

There are three aspects of the metric system that are addressed in this pretest. They are (1) metric units and the properties they measure, (2) metric prefixes and their meaning, and (3) converting between metric units.

1. The unit "liter" measures the property of

- a. mass
- b. length
- c. volume
- d. density
- e. temperature

2. The unit "meter" measures the property of

- a. mass
- b. length
- c. volume
- d. density
- e. temperature

3. Chemists measure mass using this unit.

- a. gram
- b. meter
- c. liter
- d. milliliter
- e. centimeter

4. "Milli-" means

- a. 0.001
- b. 0.01
- c. 0.1
- d. 100
- e. 1000

5. "Centi-" means

- a. 0.001
- b. 0.01
- c. 0.1

- d. 100
- e. 1000

6. "Kilo-" means

- a. 0.001
- b. 0.01
- c. 0.1
- d. 100
- e. 1000

7. 25 g =

- a. 0.025 kg
- b. 0.25 kg
- c. 2.5 kg
- d. 250 kg
- e. 2500 kg
- f. 25,000 kg

8. 43 liters is the same as

- a. 0.043 mL
- b. 0.43 mL
- c. 4.3 mL
- d. 430 mL
- e. 43,000 mL

9. How many grams are there in 42.3 milligrams?

- a. 42,300 g
- b. 423 g
- c. 4.23 g
- d. 0.423 g
- e. 0.0423 g

10. A measurement of 55 cm is the same as

- a. 0.055 mm
- b. 0.55 mm
- c. 5.5 mm
- d. 550 mm
- e. 5500 mm