

Name _____

Metric Measures



COMMON CORE STANDARD—5.MD.A.1
Convert like measurement units within a given measurement system.

Convert.

1. $16 \text{ m} = \frac{16,000}{\text{number of meters}} \text{ mm}$
 ↓ ↓
 16 1,000
 16 m = 16,000 mm
2. $6,500 \text{ cL} = \frac{\text{number of millimeters}}{\text{number of millimeters}} \text{ L}$
 ↓
 = 16,000
3. $15 \text{ cm} = \frac{\text{number of millimeters}}{\text{number of millimeters}} \text{ mm}$

4. $3,200 \text{ g} = \frac{\text{number of milligrams}}{\text{number of milligrams}} \text{ kg}$
5. $12 \text{ L} = \frac{\text{number of milliliters}}{\text{number of milliliters}} \text{ mL}$
6. $200 \text{ cm} = \frac{\text{number of millimeters}}{\text{number of millimeters}} \text{ m}$
7. $70,000 \text{ g} = \frac{\text{number of milligrams}}{\text{number of milligrams}} \text{ kg}$
8. $100 \text{ dL} = \frac{\text{number of milliliters}}{\text{number of milliliters}} \text{ L}$
9. $60 \text{ m} = \frac{\text{number of millimeters}}{\text{number of millimeters}} \text{ mm}$

Compare. Write <, >, or =.

10. $900 \text{ cm} \bigcirc 9,000 \text{ mm}$
11. $600 \text{ km} \bigcirc 5 \text{ m}$
12. $5,000 \text{ cm} \bigcirc 5 \text{ m}$
13. $18,000 \text{ g} \bigcirc 10 \text{ kg}$
14. $8,456 \text{ mL} \bigcirc 9 \text{ L}$
15. $2 \text{ m} \bigcirc 275 \text{ cm}$

Problem Solving



16. Bria ordered 145 centimeters of fabric. Jayleen ordered 1.5 meters of fabric. Who ordered more fabric?

17. Ed fills his sports bottle with 1.2 liters of water. After his bike ride, he drinks 200 milliliters of the water. How much water is left in Ed's sports bottle?

18. **WRITE** *Math* Explain the relationship between multiplying and dividing by 10, 100, and 1,000 and moving the decimal point to the right or to the left.
