

# Measuring Assignment – Student Edition

## A. Identification

Complete the table below. by writing either the unit of measurement for each physical quantity or its correct symbol.

Physical Quantity	SI Units	Symbol	U.S. Customary Units	Symbol
length	centimeter			in
		km	foot	
mass		mg		oz
	gram		pound	
temperature		C		F
time	second			s
volume	milliliter		quart	
		liter		gal

## B. Comparing Metric Measurements

Compare the values of measurement in metric units. Inside the box, write  $<$ ,  $>$ , or  $=$ .

1. 35 cL  350 mL

6. 56 m  560 km

2. 0.75 g  7500 mg

7. 360 s  360 min

3. 100 cm  1 km

8. 56°C  75°C

4. 23.8 kg  2380 g

9. 150 mL  150 cL

5. 450 cm  1.5 km

10. 0.15 kg  1 mg

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## C. Conversion of Units of Measurement (Metric to Metric)

Convert into given units of measurement.

- 45 km = \_\_\_\_\_ m
- \_\_\_\_\_ g = 2500 mg
- 7 cm = \_\_\_\_\_ mm
- 900 L = \_\_\_\_\_ kL
- 5.6 kL = \_\_\_\_\_ L
- 6.3 cm = \_\_\_\_\_ mm
- \_\_\_\_\_ g = 45000 cg
- \_\_\_\_\_ mL = 3500 L

## D. Conversion of Units of Measurement (Metric to English)

Use the conversion table below to convert each measurement from metric unit to English unit.

*Conversion Table:*

1 kg = 2.2 lbs	1 in = 2.54 cm	1 m = 3.28 ft
1 L = 0.26 gal	1 km = 0.62 mi	1 oz = 28.3 g

- 45 kg = \_\_\_\_\_ lbs
- 250 L = \_\_\_\_\_ gal
- 7 in = \_\_\_\_\_ cm
- 180 m = \_\_\_\_\_ ft
- \_\_\_\_\_ mi = 32 km
- \_\_\_\_\_ g = 235 oz

## E. Conversion of Temperature Scales

Convert the following temperature scales.

- 45 °C = \_\_\_\_\_ °F
- \_\_\_\_\_ °C = 95 °F
- 37 °C = \_\_\_\_\_ °F
- \_\_\_\_\_ °C = 65 °F
- 23 °C = \_\_\_\_\_ °F
- \_\_\_\_\_ °C = 180 °F