

# Lesson 9: Metric Conversions

Chemistry with Lab

## Metric Prefixes

One \_\_\_\_\_ thing equals \_\_\_\_\_ things

Prefix	Abbreviation	One smaller =	Many larger
centi-		1 g =	
kilo-		1 kg =	
Mega-		1 Mg=	
deci-		1 g =	
milli-		1 g =	
micro-		1 g =	

## Prefix Questions

- \_\_\_\_\_m = 1 km
- \_\_\_\_\_km = 1 m
- Which is larger? milliliter or centiliter
- Which is larger? kilogram or megagram
- Which is larger? millimeter or kilometer
- a penny = 1 \_\_\_\_\_ dollar
- a dime = 1 \_\_\_\_\_ dollar
- a megabuck = \_\_\_\_\_ dollars
- a kilopenny = \_\_\_\_\_ dollars

## Lesson 9: Metric Conversions (cont.)

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### Prefix and Base Unit Questions

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

### Conversions

Convert 152 cm to m

Conversion factor: a \_\_\_\_\_ of fact expressed as a \_\_\_\_\_  
equaling \_\_\_\_\_

Fact: 1 m = 100 cm

$$\frac{1 \text{ m}}{100 \text{ cm}} \quad \frac{100 \text{ cm}}{1 \text{ m}}$$

Convert \_\_\_\_\_ kg to grams

Convert \_\_\_\_\_  $\mu\text{s}$  to ds

\_\_\_\_\_ mm = \_\_\_\_\_ km

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### **Problem Set One**

- 1.
- 2.
- 3.
- 4.
- 5.

How many yards are in \_\_\_\_\_ km?

### **The Chemistry Quiz**

- CR1. \_\_\_\_\_ CR2. \_\_\_\_\_ 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_
4. \_\_\_\_\_ 5. \_\_\_\_\_