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Metric Conversion Practice Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

Which of the following is the base unit of length in the metric system?

Hint: Think about the primary unit used for measuring length.

◯ Kilometer
◯ **Meter** ✓
◯ Centimeter
◯ Millimeter

❘ The base unit of length in the metric system is the meter.

Which of the following is the base unit of length in the metric system?

Hint: Think about the primary unit used for measuring length.

◯ Kilometer
◯ **Meter** ✓
◯ Centimeter
◯ Millimeter

❘ The base unit of length in the metric system is the meter.

Which of the following are units of mass in the metric system? (Select all that apply)

Hint: Consider the units used to measure weight.

☐ **Gram** ✓
☐ Liter
☐ **Kilogram** ✓
☐ Millimeter

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The units of mass in the metric system include gram and kilogram.

Which of the following are units of mass in the metric system? (Select all that apply)

Hint: Consider the units used to measure weight.

☐ **Gram** ✓
☐ Liter
☐ **Kilogram** ✓
☐ Millimeter

The units of mass in the metric system include gram and kilogram.

Define the term "conversion factor" in the context of metric conversions.

Hint: Think about how you relate different units.

A conversion factor is a numerical factor used to multiply or divide a quantity when converting from one unit to another.

Define the term "conversion factor" in the context of metric conversions.

Hint: Think about how different units relate to each other.

A conversion factor is a numerical multiplier used to convert one unit to another.

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List the metric units for measuring volume and temperature.

Hint: Think about common units used in science.

1. Volume units

| Liter, Milliliter

2. Temperature unit

| Celsius

| Common metric units for volume include liter and milliliter, while for temperature, the unit is Celsius.

How many centimeters are there in a meter?

Hint: Consider the relationship between these two units.

◯ 10
◯ **100** ✓
◯ 1000
◯ 10000

| There are 100 centimeters in a meter.

How many centimeters are there in a meter?

Hint: Remember the basic metric conversions.

◯ 10
◯ **100** ✓
◯ 1000
◯ 10000

| There are 100 centimeters in a meter.

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Part 2: Application and Analysis

If a recipe requires 500 milliliters of water, how many liters is this equivalent to?

Hint: Think about the conversion between milliliters and liters.

○ **0.5 liters ✓**
○ 5 liters
○ 50 liters
○ 500 liters

| 500 milliliters is equivalent to 0.5 liters.

If a recipe requires 500 milliliters of water, how many liters is this equivalent to?

Hint: Think about the relationship between milliliters and liters.

○ **0.5 liters ✓**
○ 5 liters
○ 50 liters
○ 500 liters

| 500 milliliters is equivalent to 0.5 liters.

You are planning a trip that is 5 kilometers long. Which of the following are equivalent distances? (Select all that apply)

Hint: Consider how kilometers relate to meters and other units.

☐ **5000 meters ✓**
☐ 500 meters
☐ **5,000,000 millimeters ✓**
☐ **50,000 centimeters ✓**

| Equivalent distances include 5000 meters and 50,000 centimeters.

You are planning a trip that is 5 kilometers long. Which of the following are equivalent distances? (Select all that apply)

Hint: Consider how kilometers relate to meters and other units.

☐ **5000 meters ✓**
☐ 500 meters

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☑ **5,000,000 millimeters** ✓
☑ **50,000 centimeters** ✓

▎ Equivalent distances include 5000 meters and 50,000 centimeters.

Describe a real-world scenario where converting between metric units of mass would be necessary.

Hint: Think about situations in cooking or science.

▎ **A scenario could involve measuring ingredients in a recipe that requires grams but you have kilograms.**

Describe a real-world scenario where converting between metric units of mass would be necessary.

Hint: Think about situations in cooking or science.

▎ **Converting between metric units of mass is often necessary in cooking or laboratory settings.**

Analyze the following conversions and identify which are correct. (Select all that apply)

Hint: Consider the relationships between these units.

☑ **2.5 kg = 2500 g** ✓
☑ **0.75 L = 750 mL** ✓
☑ **100 cm = 1 m** ✓
☐ 500 mg = 5 g

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The correct conversions are 2.5 kg = 2500 g, 0.75 L = 750 mL, and 100 cm = 1 m.

Analyze the following conversions and identify which are correct. (Select all that apply)

Hint: Consider the accuracy of each conversion.

☐ **2.5 kg = 2500 g ✓**
☐ **0.75 L = 750 mL ✓**
☐ **100 cm = 1 m ✓**
☐ 500 mg = 5 g

The correct conversions are 2.5 kg = 2500 g, 0.75 L = 750 mL, and 100 cm = 1 m.

Part 3: Evaluation and Creation

Which metric unit would be most appropriate for measuring the length of a football field?

Hint: Consider the size of a football field.

○ Millimeters
○ Centimeters
○ **Meters ✓**
○ Kilometers

The most appropriate unit for measuring the length of a football field is meters.

Which metric unit would be most appropriate for measuring the length of a football field?

Hint: Consider the size of a football field in metric terms.

○ Millimeters
○ Centimeters
○ **Meters ✓**
○ Kilometers

The most appropriate metric unit for measuring the length of a football field is meters.

Evaluate the following statements and select those that are true about metric conversions. (Select all that apply)

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Hint: Think about the principles of metric conversions.

☐ **Converting from a larger unit to a smaller unit requires multiplication. ✓**

☐ **Converting from a smaller unit to a larger unit requires division. ✓**

☐ **The metric system is based on powers of ten. ✓**

☐ Temperature conversions are not part of the metric system.

> The true statements are: converting from a larger unit to a smaller unit requires multiplication, converting from a smaller unit to a larger unit requires division, and the metric system is based on powers of ten.

Evaluate the following statements and select those that are true about metric conversions. (Select all that apply)

Hint: Think critically about the principles of metric conversions.

☐ **Converting from a larger unit to a smaller unit requires multiplication. ✓**

☐ **Converting from a smaller unit to a larger unit requires division. ✓**

☐ **The metric system is based on powers of ten. ✓**

☐ Temperature conversions are not part of the metric system.

> True statements include that converting from a larger unit to a smaller unit requires multiplication, and converting from a smaller unit to a larger unit requires division.
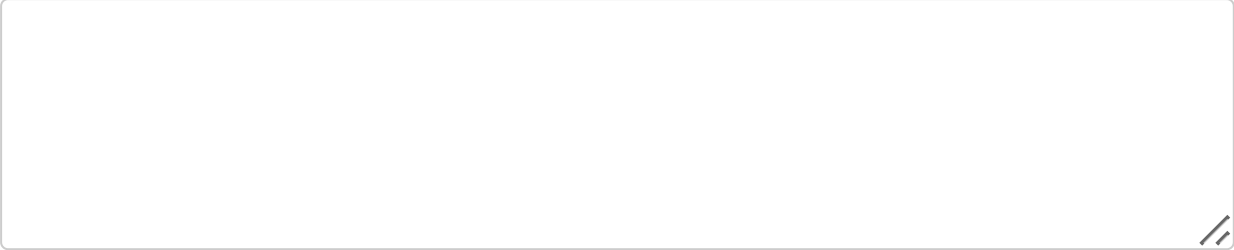
Design a simple experiment that requires the use of metric conversions, and explain how you would perform the necessary conversions.

Hint: Think about a scientific experiment or a cooking recipe.

> **An example could be measuring ingredients for a recipe and converting between grams and kilograms.**

Design a simple experiment that requires the use of metric conversions, and explain how you would perform the necessary conversions.

Hint: Think about a scientific experiment that involves measurements.

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An example could be measuring ingredients for a chemical reaction and converting between grams and kilograms.

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