

Metric Conversion Practice Worksheet

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Part 1: Building a Foundation

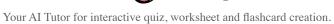
Which of the following is the base unit of length in the metric system?
Hint: Think about the primary unit used for measuring length. Kilometer
MeterCentimeter
○ Millimeter
Which of the following is the base unit of length in the metric system?
Hint: Think about the primary unit used for measuring length. Kilometer Meter Centimeter Millimeter
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
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
Define the term "conversion factor" in the context of metric conversions.
Hint: Think about how you relate different units.
Define the term "conversion factor" in the context of metric conversions.
Hint: Think about how different units relate to each other.
List the metric units for measuring volume and temperature.
Hint: Think about common units used in science.
1. Volume units
2. Temperature unit
How many centimeters are there in a meter?
Hint: Consider the relationship between these two units.
○ 10



○ 100
○ 1000
O 10000
How many centimeters are there in a meter?
Hint: Remember the basic metric conversions.
○ 10
○ 100
○ 1000
O 10000
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
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Hint: Think about the relationship between milliliters and liters.
○ 0.5 liters
○ 5 liters
○ 50 liters
○ 500 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





(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	
Describe a real-world scenario where converting between metric units of mass would be necessary	/ .
Hint: Think about situations in cooking or science.	
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Analyze the following conversions and identify which are correct. (Select all that apply)	
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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
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.

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.

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

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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.
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.
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.