

Metric Conversion Worksheet

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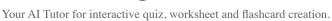
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Part 1: Building a Foundation

What is the base unit of length in the metric system?
Hint: Think about the fundamental unit used for measuring length.
A) InchB) MeterC) FootD) Yard
What is the base unit of length in the metric system?
Hint: Think about the fundamental units in the metric system.
A) InchB) MeterC) FootD) Yard
Which of the following are units of mass in the metric system? (Select all that apply)
Hint: Consider the common units used to measure weight.
□ A) Gram□ B) Pound□ C) Kilogram□ D) Ounce
Which of the following are units of mass in the metric system? (Select all that apply)
Hint: Consider the common units used to measure mass.
A) Gram



□ B) Pound□ C) Kilogram□ D) Ounce
Explain the relationship between milliliters and liters in the metric system.
Hint: Consider how these two units are related in terms of volume.
Explain the relationship between milliliters and liters in the metric system.
Hint: Consider how many milliliters are in a liter.
List the conversion factors for the following:
Hint: Think about the standard conversions in the metric system.
1. 1 meter = centimeters
2. 1 kilogram = grams
3. 1 liter = milliliters



Which of the following correctly describes the relationship between kilometers and meters?
Hint: Consider how many meters are in a kilometer.
○ A) 1 kilometer = 100 meters
○ B) 1 kilometer = 1,000 meters
○ C) 1 kilometer = 10,000 meters
O) 1 kilometer = 100,000 meters
Which of the following correctly describes the relationship between kilometers and meters?
Hint: Think about the metric prefixes.
○ A) 1 kilometer = 100 meters
○ B) 1 kilometer = 1,000 meters
○ C) 1 kilometer = 10,000 meters
O) 1 kilometer = 100,000 meters
Part 2: comprehension and Application
Which of the following statements about metric conversions is true? (Select all that apply)
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Describe how you would convert 500 centimeters to meters using the metric conversion principles.

Hint: Think about the relationship between centimeters and meters.



Describe how you would convert 500 centimeters to meters using the metric conversion principles.
Hint: Think about the relationship between centimeters and meters.
If you have 2,500 milligrams, how many grams do you have?
Hint: Remember the conversion between milligrams and grams.
○ A) 2.5 grams
○ B) 25 grams
○ C) 250 grams
O D) 0.25 grams
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You are baking a cake and the recipe calls for 2 liters of milk. You only have a measuring cup marked in milliliters. How many milliliters of milk do you need? (Select all that apply)
Hint: Consider the conversion between liters and milliliters.
☐ A) 200 mL



□ B) 2,000 mL□ C) 20,000 mL□ D) 200,000 mL
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Hint: Convert liters to milliliters.
☐ A) 200 mL
□ B) 2,000 mL
□ C) 20,000 mL□ D) 200,000 mL
A car travels 150 kilometers. Convert this distance into meters.
Hint: Think about the conversion factor between kilometers and meters.
A car travels 150 kilometers. Convert this distance into meters.
Hint: Use the conversion factor for kilometers to meters.
You have a package weighing 1.5 kilograms. How many grams does the package weigh?
Hint: Remember the conversion between kilograms and grams.
○ A) 150 grams
○ B) 1,500 grams



○ C) 15,000 grams ○ D) 150,000 grams
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Hint: Convert kilograms to grams.
○ A) 150 grams○ B) 1,500 grams○ C) 15,000 grams○ D) 150,000 grams
Part 3: Analysis, Evaluation, and Creation
Analyze the following scenario: You have a container that holds 3 liters of water. If you pour out 750 milliliters, how much water is left in liters? (Select all that apply)
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Hint: Consider the conversion between milliliters and liters.
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Break down the steps needed to convert $5{,}000$ grams into kilograms and explain your reasoning.

Hint: Think about the conversion factor between grams and kilograms.



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Hint: Consider the conversion factor between grams and kilograms.
Evaluate the following statements and select the correct ones about metric conversions. (Select all that apply)
Hint: Consider the principles of metric conversions.
A) Converting between metric units is always a simple process.
B) Understanding conversion factors is essential for accurate conversions.
C) It is impossible to convert between metric and imperial units.
D) Metric conversions are useful in scientific calculations.
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C) It is impossible to convert between metric and imperial units.
D) Metric conversions are useful in scientific calculations.
Create a real-world problem involving metric conversions and provide a detailed solution.

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Hint: Think about a scenario where you need to convert measurements.



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Create a real-world problem involving metric conversions and provide a detailed solution.	
fint: Think about a scenario where metric conversions are necessary.	
init. Think about a scenario where metric conversions are necessary.	
Reflect on the importance of metric conversions in daily life. Provide examples in the following reas:	
lint: Consider how metric conversions are used in various contexts.	
. Cooking	
. Travel	
. Travol	
. Science	
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. Cooking:	



2. Travel:			
3. Science:			