

## **Measurement Assessment**

Student Name:	Class:
Student ID:	Date: {{DATE}}

### **Assessment Details**

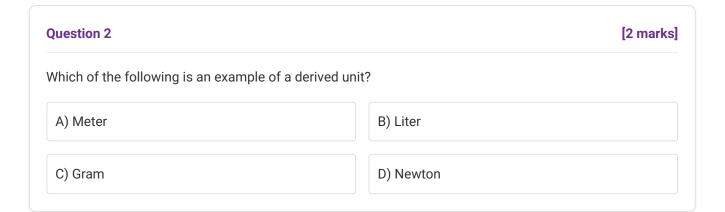
Duration: 1 hour	Total Marks: 60
Topics Covered:	<ul><li>Units and Dimensions</li><li>Measurement Techniques</li><li>Conversion between Units</li><li>Perimeter, Area, and Volume</li></ul>

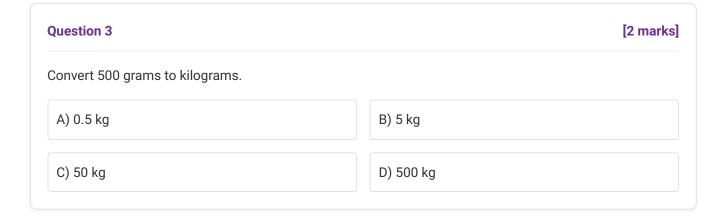
### **Instructions to Students:**

- 1. Read all questions carefully before attempting.
- 2. Show all working out marks are awarded for method.
- 3. Calculator use is permitted except where stated otherwise.
- 4. Write your answers in the spaces provided.
- 5. If you need more space, use the additional pages at the end.
- 6. Time management is crucial allocate approximately 1 minute per mark.

# Section A: Multiple Choice [20 marks]

Question 1	[2 marks]
What is the standard unit of length in the metric syste	em?
A) Meter	B) Centimeter
C) Kilometer	D) Millimeter





	[2 marks]
ennerer of a rectangle?	
B) P = I + w	
D) P = I - w	

Question 5 [2 marks]

Which of the following is a type of angle measurement?

A) Radian	B) Degree	
C) Meter	D) Liter	
Question 6		[2 marks
Convert 2 kilometers to meters.		
A) 2000 m	B) 200 m	
C) 20 m	D) 20000 m	
Question 7		[2 marks
What is the standard unit of capac	ity in the metric system?	
A) Liter	B) Milliliter	
C) Kiloliter	D) Deciliter	
Question 8		[2 marks
Question 8  Which of the following is an examp	ole of a measurement tool?	[2 marks
	ble of a measurement tool?  B) Calculator	[2 marks
Which of the following is an examp		[2 marks
Which of the following is an exampt A) Ruler	B) Calculator	[2 marks
Which of the following is an exampted A) Ruler  C) Pencil  Question 9	B) Calculator	
Which of the following is an example A) Ruler  C) Pencil  Question 9	B) Calculator  D) Eraser	

What is the formula to calculate the are	ea of a triangle?
A) A = (b x h) / 2	B) A = b + h
C) A = b - h	D) A = b x h

# Section B: Short Answer Questions [20 marks]

A water tank can hold 2000 liters of water. If 500 liters of water are already in the tank, what percentage the tank is filled?  Question 3  [4 mar]  A cube has a side length of 6 centimeters. What is the volume of the cube?  Page 0   Measurement Assessment	Question 1	4 marks
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Question 4 [4 marl	Page 0   Measurement Assessment	
A circle has a diameter of 14 centimeters. What is the circumference of the circle?	uestion 4	4 marks
	circle has a diameter of 14 centimeters. What is the circumference of the circle?	

Question 5	[4 marks
A triangular prism has a base area of 20 square centimeters and a height ovolume of the prism?	of 10 centimeters. What is the

# Section C: Project-Based Question [20 marks]

Question 1 [20 mark	(s]
Design a rectangular room with a length of 8 meters and a width of 6 meters. Calculate the perimeter an area of the room. If the room has a door that is 2 meters wide and 1.5 meters tall, calculate the area of t door and subtract it from the total area of the room. Show your calculations and provide a diagram of the room.	he

Additional Space for Answers

### Marking Guide

### **Section A: Multiple Choice Questions**

1 mark for each correct answer, 0 marks for each incorrect answer

#### **Section B: Short Answer Questions**

- Question 1: 2 marks for correct calculation of perimeter, 1 mark for correct units, 1 mark for clear working
- Question 2: 2 marks for correct calculation of percentage, 1 mark for correct units, 1 mark for clear working
- Question 3: 2 marks for correct calculation of volume, 1 mark for correct units, 1 mark for clear working
- Question 4: 2 marks for correct calculation of circumference, 1 mark for correct units, 1 mark for clear working
- Question 5: 2 marks for correct calculation of volume, 1 mark for correct units, 1 mark for clear working

### **Section C: Project-Based Question**

- 4 marks for correct calculation of perimeter and area of the room
- 2 marks for correct calculation of area of the door
- 2 marks for correct subtraction of door area from total area
- 2 marks for clear and accurate diagram of the room
- 10 marks for overall presentation, clarity, and completeness of the project