Units of Area

A. Choose the Correct Answer:

	1. Which of the following is a corre	ct unit to measure area?	
	a) cm	b) m³	
	c) cm²	d) kg	
	2. The area of a classroom floor is best measured in:		
	a) mm²	b) cm ²	
	c) m²	d) km²	
	3. 1 square meter is equal to how many square centimeters?		
	a) 100 cm²	b) 10,000 cm ²	
	c) 1,000 cm ²	d) 100,000 cm ²	
	4. What is the area of a square with side 1 m in cm ² ?		
	a) 1 cm²	b) 10 cm ²	
	c) 100 cm ²	d) 10,000 cm ²	
	5. Which unit would you use to me	•	
	a) m ²	b) cm ²	
	c) km²	d) mm²	
В.	Write the Missing Terms to Complete the Sentences:		
	1. The standard unit for measuring a	area in the metric system is	
	2. 1 hectare = square mete	rs.	
	3. Area of very small objects is measured in		
	4. To measure the area of a playgro	und, we use as the unit.	
	5. $1 \text{ km}^2 = \underline{\qquad} \text{m}^2$.		
C.	Figure out the answers to these questions:		
	1. Convert 2.5 m² into cm².		
	2. A garden has an area of 3 hectares. Express it in square meters.		
	3. Write a word problem where area is given in cm² and needs to be converted into m².		
	4. Create a table showing the conve	rsion between mm², cm², m², and km².	
	5. The floor of a hall is 150000 cm ² more suitable.	. Convert it into m ² and explain which unit is	

- 6. A rectangular plot has an area of 2400 m². Express this area in hectares.
- 7. Riya found the area of her art notebook cover to be 1200 mm². Convert it into cm².
- 8. A rectangular field is 0.03 km² in area. Express it in both m² and hectares.

D. Mark each sentence with a True (✓) or False (X):

1. $1 \text{ m}^2 = 10,000 \text{ cm}^2$.	
2. Area is always measured in cubic units.	
3. 1 hectare is larger than 1 km².	
4. $100 \text{ mm}^2 = 1 \text{ cm}^2$.	
5. Square meter is a higger unit than square centimeter	

E. Challenge yourself with these questions:

1. Match the following:

Quantity	Unit
i. Book cover	a) km²
ii. National park	b) cm²
iii. House floor	c) m²
iv. Stamp	d) mm²

- 2. Circle the correct units of area: m, cm², m², L, kg, mm², km.
- 3. Write the names of any three objects around you and the most suitable unit for measuring their area.
- 4. Find the incorrect unit in the list and explain why: cm², m², m³, km², hectare.
- 5. Write a short paragraph on why area is measured in square units and not regular units.
- 6. Create a real-life scenario where incorrect units of area are used. Explain how it affects the result.
- 7. A rectangular field is 80 m long and 50 m wide. Calculate its area and convert it to hectares.