

## CHAPTER-5 | Measurement of Length and Motion

QUIZ  
PART-02

1. Which tool is best for measuring a small object like a pencil?  
A. Metre scale  
B. Measuring tape  
C. 15-cm scale  
D. Flexible thread (C)

**Explanation :** Small objects are measured with a 15-cm scale for convenient, accurate readings.

2. Which tool is suitable for measuring the height of a room?  
A. 15-cm scale  
B. Metre scale or measuring tape  
C. Protractor  
D. Vernier caliper (B)

**Explanation :** Tall objects are measured using a metre scale or a measuring tape.

3. Which tool is most appropriate for measuring the girth of a tree trunk?  
A. Rigid metre scale  
B. 15-cm scale  
C. Flexible tape  
D. Compass (C)

**Explanation :** Round objects are measured with a flexible tape that wraps around curves.

4. How should the eye be positioned to read a scale correctly?  
A. From the left side at an angle  
B. From the right side at an angle  
C. Directly above the reading point  
D. From far away (C)

**Explanation :** Looking straight above the mark avoids reading errors.

5. How should a scale be placed on an object to measure its length?  
A. Touching only at one end  
B. Floating slightly above the object  
C. Touching the object along its full length  
D. Diagonally across the object (C)

**Explanation :** The scale should touch the object fully along its length for accurate measurement.

6. Using a broken scale, the start is at 1.0 cm and the end is at 10.4 cm. What is the object's length?  
A. 10.4 cm  
B. 9.4 cm  
C. 11.4 cm  
D. 8.4 cm (B)

**Explanation :** Length = end reading – start reading =  
 $10.4 - 1.0 = 9.4$  cm.

7. Which method measures a curved line accurately?  
A. Place a straight ruler along the curve  
B. Estimate by eye  
C. Lay a thread along the curve, then straighten and measure with a metre scale  
D. Use a protractor (C)

**Explanation :** A flexible thread follows the curve; its straightened length is then measured.

8. Which is the correct way to write a final measurement?  
A. 9.4  
B. 9.4 cms  
C. 9.4 CM  
D. 9.4 cm (D)

**Explanation :** Always include the unit in lowercase symbols without adding "s," e.g., cm.

9. What aid is recommended for visually challenged students when measuring length?  
A. Transparent plastic scales  
B. Scales with raised markings  
C. Digital stopwatches  
D. Metal protractors (B)

**Explanation :** Raised markings can be felt by touch to read measurements.

10. What do kilometre stones on highways indicate?  
A. Distance already travelled  
B. Average road width  
C. Distance from a reference city  
D. Distance to the nearest petrol pump (C)

**Explanation :** They show distance relative to a fixed reference point (a city).