

Live Worksheet: Distance, Displacement, Scalars & Vectors

Student Name: _____ Class: _____

◆ Section 1: Multiple Choice

(Select the correct answer)

1. A student walks 5 m east and then 5 m west. What is the displacement?

- ☐ 10 m
 - ☐ 5 m
 - ☐ 0 m
 - ☐ 5 m east
-

◆ Section 2: Fill in the Blanks

2. Distance is a _____ quantity.

3. Displacement is a _____ quantity.

◆ Section 3: Drag & Drop (or Match)

(Match each with Scalar or Vector)

Quantity Type

Speed Scalar / Vector

Velocity Scalar / Vector

Distance Scalar / Vector

Force Scalar / Vector

◆ Section 4: Short Answer

4. A car travels 20 m north.

- Distance = _____
 - Displacement = _____
-

◆ Section 5: Yes/No + Explanation

5. Can displacement be zero even if distance is not zero?

☐ Yes ☐ No

Explain:

◆ **Section 6: Calculation**

6. A student walks:

- 6 m east
- 2 m west
- Distance = _____
- Displacement = _____