WONDERLEARNERZ PRIMARY ACADEMY â€¢ PRACTICE & ASSESSMENT WORKSHEET

Maps, Locations, and Directions: Worksheet 4

Grade 5 | Mathematics | Ch 18: Maps, Locations, and Directions | Total Marks: 19 | Time: 45 Minutes

Student Name: _____ **Roll / ID No:** _____

Grade / Section: _____ **Date:** _____ **Score:** _____ / 19

Instructions: Section A (Q1-Q4): Choose the correct option (A, B, C, or D). Section B (Q5-Q9): Write your exact one-word or numerical answer. Section C & D (Q10-Q15): Write your detailed answers, corrections, and show all working steps neatly in the space provided.

Q1. On a standard grid map, which coordinate is traditionally written first? [1 Mark]

( ) A. The horizontal coordinate (X-axis)
( ) B. The vertical coordinate (Y-axis)
( ) C. The altitude coordinate
( ) D. The compass bearing

Q2. If a map scale indicates 1 cm = 5 km, what actual distance on the ground is represented by 6 cm on the map? [1 Mark]

( ) A. 30 km
( ) B. 25 km
( ) C. 11 km
( ) D. 35 km

Q3. Which compass direction lies exactly halfway between North and East? [1 Mark]

( ) A. North-East (NE)
( ) B. North-West (NW)
( ) C. South-East (SE)
( ) D. East-North (EN)

Q4. A hiker starts at (2, 3) and moves 4 units East and 3 units North. What are the new coordinates? [1 Mark]

( ) A. (6, 6)
( ) B. (6, 3)
( ) C. (2, 6)
( ) D. (5, 7)

Q5. At the Eco-Friendly Solar Park, an aerial drone survey uses a grid map. The drone launches from Base at (1, 2) and flies to Station Alpha at (7, 10). What is the horizontal distance in grid units between Base and Station Alpha? [1 Mark]

Q6. On a town map, a scale bar shows 1 cm = 250 meters. A delivery van travels along Main Street which measures 8 cm on the map. What is the real-world distance in kilometers? [1 Mark]

Q7. A treasure hunter walks 50 meters North, turns 90Â° clockwise and walks 50 meters, turns 90Â° clockwise and walks 50 meters, and finally turns 90Â° clockwise and walks 50 meters. Where is the hunter relative to the start? **[1 Mark]**

Q8. Identify the direction: Directly opposite to South-West on an 8-point compass is [?]. **[1 Mark]**

Q9. Map Scale Puzzle: Map distance = 4 cm, Real distance = 20 km. Scale: 1 cm = [?] km. **[1 Mark]**

Q10. A student plots the point (4, 7) by counting 7 units along the horizontal x-axis and 4 units up the vertical y-axis. What error was made? **[1 Mark]**

Q11. A scout claims: 'Facing East and making a 180Â° turn will leave me facing North.' Correct the scout's direction. **[1 Mark]**

Q12. Explain why maps include a scale bar and a North arrow (compass rose) to be practically useful for navigation. **[2 Marks]**

Q13. Why is an 8-point compass rose more precise for navigation than a 4-point cardinal compass? **[2 Marks]**

Q14. On a topographical map, the scale is 1:50,000 (1 cm on the map = 50,000 cm in reality). How many kilometers does a 12 cm trail on the map represent on the ground? **[2 Marks]**

Q15. Three emergency response stations are located at A(2, 2), B(2, 8), and C(10, 2). If these three stations are connected by straight boundary fences, what is the area of the triangular zone enclosed? **[2 Marks]**