Maps and Locations

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. You face North. Which direction is behind you?
(a) East **(b)** North **(c)** West **(d)** South

2. On a grid you start at (8, 7), move 4 to the right and then 2 up. Where are you?
(a) (10, 11) **(b)** (13, 9) **(c)** (12, 7) **(d)** (12, 9)

3. To reach the point (2, 5) from (0, 0), you go:
(a) 7 across **(b)** 2 up, then 5 down
(c) 5 across, then 2 up **(d)** 2 across, then 5 up

4. The bank is to the South of the library. So the library is to the ____ of the bank.
(a) North **(b)** South **(c)** West **(d)** East

5. The Sun rises in the:
(a) East **(b)** South **(c)** West **(d)** North

6. Moving only along the grid lines, how many steps is the shortest path from (8, 1) to (5, 1)?
(a) 5 **(b)** 3 **(c)** 4 **(d)** 14

7. On a map grid, North is up. You are at (7, 8) and walk 1 step West. Where are you?
(a) (6, 8) **(b)** (7, 7) **(c)** (8, 8) **(d)** (7, 9)

8. You walk West and then turn around. Which way are you walking now?
(a) North **(b)** East **(c)** South **(d)** West

Section B — Short answer — 8 × 2 = 16 marks

9. Start at (4, 1) on a grid with North up. Walk 1 East, then 3 North, then 2 West. Write the point where you end.

10. How do you walk from (2, 7) to (3, 1) along the grid lines (North is up)?

11. You face West. Which direction is on your left?

12. The library is to the South of the hospital. In which direction is the hospital from the library?

13. How many steps along the grid lines is the shortest path from (8, 6) to (4, 8)?

14. Which of these points are on the same across line as (0, 9): (7, 0), (6, 9), (8, 4), (1, 4), (2, 2)?

15. Metro stations run from West to East: Fort, Museum, Stadium, College. The distances between them are 9 km, 8 km, 2 km. How far is it from Fort to College, and in which direction?

16. Three corners of a rectangle on a grid are (8, 4), (11, 4) and (11, 8). What is the fourth corner?

Section C — Word problems — 4 × 4 = 16 marks

17. On a village map (North up), the clinic is at (7, 2), the library is at (6, 7), the hospital is at (1, 4), the market is at (7, 5). (a) Which place is farthest East? (b) How many steps along the grid lines from the clinic to the library? (c) Describe the walk from the hospital to the market.

18. A treasure hunt starts at (6, 7) (North up). The clues say: 1 West, then 1 West, then 1 North. (a) Write the point after each clue. (b) Where is the treasure? (c) How many steps did you walk in all?

19. At sunrise Kanti stands facing the Sun. (a) Which direction is that? (b) What direction is on the left? On the right? Behind? (c) Then this child turns to the left. Which direction is the child facing now?

20. A park is a rectangle on a grid. Its corners are (5, 1), (9, 1), (9, 3) and one more. (a) What is the missing corner? (b) How many steps is it all the way round the park along its edges? (c) How many grid squares are inside the park?

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Answer key

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Q	Answer	Working
1	**(d) South**	right is a quarter turn clockwise, behind is a half turn, left is a quarter turn anticlockwise
2	**(d) (12, 9)**	the first number goes across, the second goes up
3	**(d) 2 across, then 5 up**	the first number is how far across
4	**(a) North**	turn the direction round: North ↔ South, East ↔ West
5	**(a) East**	—
6	**(b) 3**	3 across + 0 up or down
7	**(a) (6, 8)**	North is up, East is right
8	**(b) East**	—
9	**(3, 4)**	East adds to the first number, North adds to the second
10	**1 East and 6 South**	any order of the same moves is fine
11	**South**	—
12	**North**	—
13	**6**	4 + 2
14	**(6, 9)**	the second number must be 9
15	**19 km, East**	9 + 8 + 2
16	**(8, 8)**	—
17	**(a) the clinic; (b) 6; (c) 6 East and 1 North**	—
18	**(a) (5, 7), (4, 7), (4, 8); (b) (4, 8); (c) 3**	—
19	**(a) East; (b) left North, right South, behind West; (c) North**	the Sun rises in the East
20	**(a) (5, 3); (b) 12; (c) 8**	the sides are 4 and 2 steps long

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