The Surajkund Fair

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. Beads are written by colour (R red, B blue, G green). Which bead mala is symmetrical, the same from both ends?

(a) RBGGGGBR **(b)** BBBGBBBG **(c)** RRGRRRRG **(d)** RGBGBRGG

2. 7 stalls stand in a row. The bangle stall is 6th from the left. What is its place from the right?

(a) 7th **(b)** 6th **(c)** 2nd **(d)** 3rd

3. You face south. You turn left, then right. Which way do you face now?

(a) South **(b)** North **(c)** East **(d)** West

4. Can the floor of the bathroom be covered with squares, with no gaps and no overlaps?

(a) Yes **(b)** Only if they overlap
(c) No, there will be gaps **(d)** Only on a round floor

5. A symmetrical mala looks:

(a) the same from both ends **(b)** different at each end
(c) only red **(d)** very long

6. Complete the mala so it is symmetrical: GGR___

(a) GRR **(b)** RGG **(c)** GGR **(d)** GRG

7. In a queue of 9 children, Ravi is 2nd and Pari is 9th from the front. How many children are between them?

(a) 6 **(b)** 7 **(c)** 5 **(d)** 8

8. Is the mala GBGGGBGG symmetrical?

(a) Only if it is long **(b)** No
(c) Yes **(d)** Only from the left

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

9. Write the other half of this symmetrical mala: RRGG | ____

10. Is the mala GBBRBRBG symmetrical? How do you know?

11. In a row of 14 swings, Tara is on the 13th from the left. Which is she from the right?

12. Facing west, you turn left twice. Which way do you face?

13. Can circles tile the floor of a hall with no gaps? Explain.

14. Make a symmetrical mala of 6 beads with 4 red (R) and 2 green (G) beads.

15. 14 stalls are in a line. The toy stall is 2nd and the food stall is 11th. How many stalls are between them?

16. Does the word TOOT read the same backwards, like a symmetrical mala?

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

17. Complete the symmetrical mala GYBY____ (R red, B blue, G green, Y yellow). Then count how many beads of each colour it has.

18. At the fair, 11 stalls stand in a row. From the left, the bangles stall is number 2, the kites stall is 6 and the toys stall is 8. (a) Which stall is nearest the right end? (b) What is the bangles stall’s place from the right? (c) How many stalls are between the kites and toys stalls?

19. Gita starts at the gate facing east. She walks, then turns left, walks, turns left, walks and turns right. Which way is she facing at each turn, and at the end?

20. A floor is to be covered with tiles. Can it be done with squares? With rectangles? Explain what “no gaps and no overlaps” means.

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Answer key

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Q	Answer	Working
1	**(a) RBGGGGBR**	it reads the same from left and from right
2	**(c) 2nd**	7 − 6 + 1
3	**(a) South**	a right turn goes north → east → south → west
4	**(a) Yes**	—
5	**(a) the same from both ends**	—
6	**(b) RGG**	the second half is the first half backwards
7	**(a) 6**	9 − 2 − 1
8	**(b) No**	read it backwards: GGBGGGBG
9	**GGRR**	the second half mirrors the first
10	**No: backwards it reads GBRBRBBG.**	—
11	**2nd**	14 − 13 + 1
12	**East**	—
13	**No, circles leave gaps between them.**	—
14	**e.g. GRRRRG**	any arrangement that reads the same both ways
15	**8**	11 − 2 − 1
16	**Yes**	—
17	**GYBYYBYG; blue 2, green 2, yellow 4**	—
18	**(a) toys; (b) 10; (c) 1**	—
19	**turn left (now facing north); turn left (now facing west); turn right (now facing north)**	—
20	**Squares: yes; rectangles: yes. It means the tiles cover every part of the floor and no tile lies on top of another.**	—

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