

CHAPTER-3 | Number Play

QUIZ PART-01

1. What does each child say in the activity?
- Number of shorter neighbours
 - Number of taller neighbours
 - Number of friends
 - Number of steps (B)

Explanation: The chapter clearly says each person says the number of taller neighbours they have.

2. If a child is the tallest in the line, what number will the child say?
- 0
 - 1
 - 2
 - 3 (A)

Explanation: No one is taller than the tallest child, so the number is 0.

3. Can a child standing at an end of the line say 2?
- Always
 - Never
 - Only if both neighbours are shorter
 - Only if there are 2 children (B)

Explanation: An end child has only one neighbour, so it is impossible to have 2 taller neighbours. This checks the idea asked in the chapter.

4. Can all children in one line say 0?
- Yes
 - No
 - Only for 2 children
 - Only for equal heights (B)

Explanation: At least one child will be shorter than someone else, so not everyone can say 0. The chapter asks students to think about this arrangement.

5. Can two children standing next to each other say the same number?
- Yes
 - No
 - Only if both are tallest
 - Only if both are shortest (A)

Explanation: The chapter itself asks this and shows that equal neighbouring answers can happen.

6. For 5 children of different heights, is the sequence 1, 1, 1, 1, 1 possible?
- Yes
 - No
 - Only in a circle
 - Only with equal heights (B)

Explanation: The tallest child must say 0, because nobody is taller than that child. So all 1s are impossible.

7. Is the sequence 0, 1, 2, 1, 0 possible for 5 children?
- Yes
 - No
 - Only after swapping ends
 - Only for 4 children (A)

Explanation: The chapter gives this as a possible arrangement. The middle child can have two taller neighbours, the next two can have one each, and the tallest children at the ends can say 0.

8. In a line, what is the maximum number a child can say?
- 0
 - 1
 - 2
 - 5 (C)

Explanation: A child can have at most two neighbours in a line, one on each side, so the maximum is 2.

9. To make the maximum number of children say 2 in a group of 5, how many children can say 2?
- 1
 - 2
 - 3
 - 4 (B)

Explanation: The chapter's shown arrangement gives the maximum as two children saying 2.

10. After rearranging the children, do the numbers said by them stay the same?
- Yes
 - No
 - Always 0
 - Always 1 (B)

Explanation: The numbers depend on the arrangement, so changing positions can change the numbers. The assessment also asks this idea.