

Directions (Q.14 – Q.17): Answer the questions on the basis of the information given below.

Eight children – P, Q, R, S, W, X, Y, and Z live on eight different floors (numbered 1 to 8) of a building but not necessarily in same order. Each one of them has got different marks in a test – 39, 44, 46, 53, 65, 81, 88, and 97.

W lives on an even-numbered floor below floor numbered 6. Two children live between W and one who got 81 marks. Same number of children live above W as below the floor of P. The one who got 53 marks lives on a floor immediately above P. One child lives between the ones who got 53 and 46 marks respectively. Two children live between the floors of Y and one who got 65 marks such that Y is above the one who got 65 marks. Neither P nor W got 65 marks. One child lives between the ones who got 65 and 39 marks respectively. S lives on one of the floors below the one who got 65 marks. Z got 39 marks and lives on an odd-numbered floor. The difference between the marks of X and R is 21. X lives above R. P did not get the highest marks.

Q.14) How many children live between P and Z?

- a) Three
- b) Four
- c) One
- d) None

Q.15) Who got the highest marks?

- a) S
- b) Q
- c) Y
- d) W

Q.16) Which of the following combination of floor no. – child – marks is true as per the given arrangement?

- a) 7 – Q – 46
- b) 8 – X – 81
- c) 4 – W – 53
- d) 5 – P – 88

Q.17) Who among the following lives on the floor numbered 4?

- a) Q
- b) The one who got 88 marks
- c) The one who got 46 marks
- d) S

Q.18) A right circular cone is exactly fitted inside a cube in such a way that the edges of the base of the cone are touching the edge of one of the faces of the cube and the vertex is on the opposite face of the cube. If the volume of the cube is 9261 cm^3 , what is the volume of the cone?

- a) 2425.5 cm^3
- b) 2350.25 cm^3
- c) 2550.5 cm^3
- d) 2580.75 cm^3

Q.19) The number of students in 3 classes is in the ratio 4: 5: 6. If 30 students are increased in each class this ratio changes to 6: 7: 8. The total number of students in the three classes in the beginning was

- a) 225
- b) 250
- c) 275
- d) 280