Direction Sense

1. Q travels towards East. M travels towards North. S and T travel in opposite directions. T travels towards right of Q. Which of the following is definitely true?
(a) M and S travel in the opposite directions.
(b) S travels towards West.
(c) T travels towards North.
(d) M and S travel in the same direction.

2. Of the five villages P, Q, R, S and T situated close to each other, P is to west of Q, R is to the south of P. T is to the north of Q, and S is to the east of T. Then, R is in which direction with respect to S?

(a) North-West   (b) South-East   (c) South-West   (d) Data Inadequate

3. After 4 pm on a sunny day when Ramesh was returning from his school, he saw his uncle coming in the opposite direction. His uncle talked to him for some time. Ramesh saw that the shadow of his uncle was to his right side. Which direction was his uncle facing during their talk?

(a) North   (b) South   (c) East   (d) Data inadequate

4. From my house I worked 5 km towards North. I turned rightand walked 3 km. Again I went one km to south How far am I from my house?

(a) 7km   (b) 6km   (c) 4km   (d) 5km

5. Rohit walked 25 metres towards South. Then he turned to his left and walked 20 metres. He then turned to his left and walked 25 metres. He again turned to his right and walked 15 metres. At what distance is he from the starting point and in which direction?
(a) 35 metres East   (b) 35 metres North   (c) 40 metres East   (d) 60 metres East

6. Sobha was facing East. She walked 20 metres. Turning left she moved 15 metres and then turning right moved 25 metres. Finally, she turned right and moved 15 metres more. How far is she from her starting point?

(a) 25 metres   (b) 35 metres   (c) 50 metres   (d) 45 metres

7. The post office is in the East of the school while my house is in the South of the school. The market is in the North of the post office. If the distance of the market from the post-office is equal to the distance of my house from the school, in which direction is the market with respect to my house?

(a) North   (b) East   (c) North-east   (d) South-west

8. If all the directions are rotated, i.e., if North is changed to West and East to North and so on, then what will come in place of North-West?

(a) South-west   (b) North-east   (c) East-north   (d) East-west

9. A cyclist goes 30 km to North and then turning to goes 40 km. Again he turns to his right and goes 20 km. After this he turns to his right and goes 40 km. How far is the from his starting point?

(a) 0 km.   (b) 10 km.   (c) 25 km.   (d) 40 km

10. Mr. B starts walking in west direction, then he turns 90 degrees in clockwise direction, then turns 45 degrees in clockwise direction, again turns 180 degrees in clockwise direction and finally turns 270 degrees in anticlockwise direction. Now, in which direction is he facing/moving?

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

11. Ravi in order to go to university started from his house in the east and came to a crossing. The road to the left ends in a theatre, straight ahead is the hospital. In which direction is the university?

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

12. A clock is so placed that at noon its minute hand points towards the north-east. In which direction does its hour hand points at 1:30pm?
(a) North   (b) South   (c) East   (d) West

Directions (13-15): Study the given information and answer the following question. A, B, C, D, E, F, G, H and I are nine persons. C is 4 km east of B. A is 4 km north of B and H is 6 km south of A. G is 5 km west of B while D is 7 km east of G and F is 3km north of G. I is situated just in middle of B and A. distance between A and I is same as H and E.

13. Distance between C and D is?
(a) 2 km   (b) 1 km   (c) 5 km   (d) 1.5 km
(e) none of these

14. Distance between I and E is?
(a) 4km   (b) 3 km   (c) 2 km   (d) 6 km
(e) none of these

15. In which direction is E with respect to D?
(a) Northeast   (b) Southwest   (c) West   (d) North-west
(e) None of these

Order & Ranking

Direction (1-3): Study the following information carefully and answer the question given below: Six disks viz. T, U, V, W, X, and Y have different volumes. Y is heavier than at least three disks. X is just lighter than V but just heavier than T. Neither U nor W has the volume adjacent to Y.

1. If only one disk has the volume between X and W, then how many disks are heavier than U?
A.   Four   B. Three   C. Five   D. Two   E. None of these

2. Which of the following desk is the second heaviest?
A.Y   B.X   C.W   D.U   E.V

3. If disk T is 31cm and W is 28cm then what could be the volume of U?
A.26cm   B.29cm   C.32cm   D.27cm   E. Can't be determined

4. In a row of 30 persons, A is 14th from the right corner and B is 20th from the left Corner then find the number of persons between A & B?

A) 5   B) 4   C) 3   D) 2

5. In a row P is 12th from left corner and Q is 15th from right corner then find the Minimum strength of the row if 5 persons are there in between P & Q.
A) 15   B) 20   C) 18   D) 14

6. In the number 2190453783, if the first number is interchanged with the last number, the second number is interchanged with the second last number, and so on, the position of how many numbers shall remain the same?
A) Three   B) One   C) Five   D) None   E) Cannot be determined

7. **Hritik is 7th ranks ahead of Aamir Khan in a class of 39. If Aamir Khan's rank is 17th from the last, what is Hritik's rank from the start?**
A) 10   B) **12**   C) **16**   D) **15**

8. In a row of boxes, B1 is 20th from the right end and B2 is eleventh from the left end. If they interchange their positions, B2 becomes fifteenth from the left end. How many Boxes are there in the row?
A) 34   B) 35   C) 30   D) 29

9. In a row of girls, Kamya is fifth from the left and Preeti is sixth from the right. When they exchange their positions, then Kamya becomes thirteenth from the left. What will be Preeti's position from the right?
A) 7th B) 11th C) 14th D) 18th

10. **Shimla is colder than only Ooty. Mussoorie is colder than Mount Abu but not as cold as Nainital. Darjeeling is colder than Shimla but not the coldest. Which among the following is the second coldest?**
A) Nainital   B) **Darjeeling**   C) **Mussoorie**
D) Can't be determined