

Direction sense and Ranking

Q1. A boy started from his home and walks 40 meters in North-east direction, then turns towards North-West and walks 40 meters. Then, he walks 40 meters towards south-west direction. Finally, he turns towards his house. In which direction is he moving?

- (a) South-East (b) North-East (c) North-West (d) South-West (e) None of these

Q2. The main gate of a temple is facing east. From the back side of the temple, the priest walks straight 90 meters, then turns to the right and walks 90 meters again. Finally, he turns towards left and stops after walking 25 meters. Now the priest is in which direction from the starting point?

- (a) North-West (b) South-West (c) South-East (d) North-East (e) none of the

Q3. Town A is $10\sqrt{2}$ km in north-west direction from town B. Town C is 10 km in south direction from town A. Town D is 10 km towards east of town A. How far and in which direction is town D from town C.

- (a) 10 km SE (b) 20 km NE (c) 10 km south east (d) cannot be determined (e) none of these

Q4. One morning after sunrise. Kunal and Priyanka were standing in a garden with their backs towards each other. Kunal's shadow fell exactly towards his left-hand side. In which direction is Priyanka facing?

- (a) West (b) East (c) South (d) North (e) none of these

Q5. Jessica's school bus was facing north when it reached her school. After starting from Jessica's house, it turned right twice and then left before reaching the school. What direction was the bus facing when it left the bus stop in front of Jessica's house?

- (a) East (b) West (c) North (d) South (e) None of these

Q6. J, K, L and M are playing Carrom boards. J and K are partners. M faces towards North. If J faces towards west, then who faces towards south?

- (a) K (b) J (c) M (d) L (e) None of these

Q7. Facing the east, Robert left and walked 20 meters, then turned to his left again and walked 20 meters. He then turned 45° towards his left and went straight to cover 40 meters. In which direction is he from his starting point?

- (a) South-West (b) South-East (c) North-West (d) North-East (e) None of these

Q8. Vicky starts from his house and heads for the college which is 400 meters west of his house, when he covers half the distance; he changes his mind and turns right. What distance should he travel now, so that his sister would think that he is in the college itself? Assume that (i) his sister can see him with a telescope (ii) his sister has no sense of direction (iii) his sister knows that the distance between his house and the college is 400 meters

- (a) $200\sqrt{2}$ m (b) 200 m (c) $200\sqrt{3}$ (d) 400 m (e) None of these

Directions (Q9-10): Manoj started from his house, went 1 km south, turned left, went 1 km, turned right went 1 km and again turned right and went 2 km. He saw his friend Rajesh coming from the opposite direction. Rajesh started from his house, went 2 km south, then turned left and went 1 km where she meets her friend Manoj, who was coming from the opposite direction. Both meets exactly at 9:30 a.m.

Q9. How far is Rajesh's house from Manoj's house?

- (a) 1 km east (b) 3 km east (c) 2 km west (d) 1 km south (e) None of these

Q10. If Manoj walks at 6 km per hour, at what time did he start from his home?

- (a) 8:30 a.m. (b) 8:40 a.m. (c) 8:50 a.m. (d) 9:00 a.m. (e) None of these

Q11. Raman starts from his bank and goes 2 km east, turns right and goes 2 km, then turns left and goes 2 km and finally again turns left and after 2 km reaches his house. How far is his house from bank?

- (a) 2 km (b) $\sqrt{5}$ km (c) 4 km (d) 3 km (e) None of these

Q12. Sunita drives 3 km north from her house, turns left and drives 5 km, again turns left and drives 3 km. Finally, again turns left and drives 1 km and reaches her office. In which direction is her office from his house?

- (a) East (b) South-West (c) West (d) North –East (e) None of these

Q13. Ranjit walks 1000 meters towards north. From there, he walks 600 meters towards south. Then he walks 300 meters towards east. How far and in which direction is he with reference to his starting point?

- (a) 5000 meters towards west (b) 700 meters towards west (c) 700 meters towards east
(d) 500 meters towards north-east (e) None of these

Q14. Kabli walks 40 metre north and reaches his bank. He walks back to where he was and continuing in the same direction goes for another 60 metre, then turns left and walks 40 metre, turns right and walks another 20 metre. He now reaches his house. How far is his house from the bank and in which direction?

- (a) $40\sqrt{10}$ m S-W (b) $40\sqrt{5}$ m. S-E (c) $40\sqrt{10}$ m. S-E (d) $40\sqrt{5}$ m S-W (e) None of these

Q15. A man is facing north. He turns 45° towards his right, then turns left and finally towards his right at an angle of 135° . In which direction is he facing now?

- (a) North (b) North-East (c) East (d) North-West (e) None of these

Q16. If north-west is called 'west', 'south-west' is called 'south', 'south-east' is called 'east' and so on, what direction will north be called?

- (a) East (b) North-West (c) North-East (d) South (e) None of these

Q17. Advocate Sharma's house has gates in three directions – North, east and south. There is no gate towards the back. One day at the time of sun set advocate Sharma goes to the back of the house and started walking towards the west. After walking 150m, he turns right and walks 300 m, turns left and goes 200 m. and finally turns left again and goes 100 m. How far is he from his house and in which direction?

- (a) 403 m. N-E (b) 304 m S-W (c) 403 m. N-W (d) 304 m. N-E (e) None of these

Q18. Rakesh is on 9th position from upwards and on 38th position from downwards in a class. How many students are in the class?

- (a) 45 (b) 45 (c) 47 (d) 48

Q19. In a row of boys, Suresh is seventh from the left and Rohit is twelfth from the right. If they interchange their positions, Suresh becomes twenty-second from the left. How many boys are there in a row?

- (a) 19 (b) 31 (c) 33 (d) Cannot be found

Q20. In a line of boys, Ganesh is 12th from the left and Rajan is 15th from the right. They interchange their positions. Now, Rajan is 20th from the right. What is the total number of boys in the class?

- (a) 29 (b) 30 (c) 31 (d) 32