

Practice Exercise

Type 1 Direction Based

Directions (Q. Nos. 7 to 8) Study the information and answer the questions given below.

On a playing ground Dev, Kumar, Nilesh, Ankur and Pintu are standing as directed below facing the north

- (i) Kumar is 40 m to the right of Ankur.
 (ii) Dev is 60 m to the South of Kumar.
 (iii) Nilesh is 25 m to the West of Ankur.
 (iv) Pintu is 90 m to the North of Dev.

Type 2 Displacement Based

11. A villager went to meet his uncle in another village situated 5 km away in the North-East direction of his own village. From there he came to meet his father-in-law living in a village situated 4 km in the South of his uncle's village. How far away he now?
(1) 3 km (2) 5 km (3) 4 km (4) 6 km
(5) None of these

12. A walks 10 m in front and 10 m to the right. Then every time turning to his left, he walks 5, 15 and 15 m respectively. How far is he now from his starting point?
(1) 5 m (2) 10 m (3) 15 m (4) 20 m
(5) 23 m

Type 3 Miscellaneous/Mixed Problems

Direction

[9]

5. A station director drives a car for 17 km to the west from the radio station. Then she turns left and goes 15 km. after this she turns right and goes for 20 km. Now in which direction is she going ?
 (a) South (b) South-West (c) West
 (d) North-East (e) None of these
6. A river flows west to east and on the way turns left and goes in a semi-circle round a hillock, and then turns left at right angles. In which direction is the river finally flowing ?
 (a) West (b) East (c) North
 (d) South (e) None of these
7. A man travels 14 km west then 8 km towards south, then 8 km towards east. How far he is from the start ?
 (a) 23 km (b) 20 km (c) 15 km
 (d) 10 km (e) None of these
8. From a point P, Ratan started walking towards South and walked 8' feet. He then turned towards his left and walked 6 feet and reached a point Q. The point Q is at what minimum distance and at what direction from the point P.
 (a) 10 feet South-West (b) 15 feet South-East
 (c) 10 feet South-East (d) 15 feet South-East
 (e) None of these
9. A man went 5 km towards South. Then turned East and covered 5 km and turned to the right. Again after 5 km, he turned to left and covered 5 km to reach the destination. How far and in which direction is he from his starting point ?
 (a) $20\sqrt{2}$, South-East (b) $10\sqrt{2}$, South-East
 (c) 5, South-West (d) 20, South-West
 (e) None of these
10. Aasif starts walking straight towards East. After walking 65 m he turns to the left and walks 30 m straight. Again he turns to the left and walks a distance of 40 m straight. Again he turns to the left and walks a distance of 30 m. How far is he from the starting point ?
 (a) 140 m (b) 25 m (c) 35 m
 (d) 115 m (e) None of these
11. Pankaj goes 40 m North then turns right and walks 30 m, then again turns right and walks 30 m, then again turns right and walks 30 m. How much meter away is he from his original position ?
 (a) 0 m (b) 10 m (c) 20 m
 (d) 40 m (e) None of these
12. A walks 20 m in front and 5 m to the right. Then every time turning to his left he walks 10, 15 and 30 metres respectively. How far is he now from his starting point ?
 (a) 10 m (b) 20 m (c) 5 m
 (d) 15 m (e) 23 m
13. An Auto Driver drove 30 kms westwards and then drove another 40 kms in southward direction. If he now drives 60 kms from this point eastwards and 40 kms northwards, how far is he from starting point ?
 (a) 30 kms (b) 50 kms (c) 20 kms
 (d) 130 kms (e) None of these
14. Radhika travelled 11 km to the west, then turned right and travelled 6 km, then turned left and travelled 3 km, then turned back and travelled 8 km, then turned right and travelled 6 km. How far is he from the starting point ?
 (a) 3km (b) 6 km (c) 7 km
 (d) 9 km (e) None of these
15. If A is in the North of B and C is in the West of B. In what direction is A with respect to C?
 (a) North-East (b) East (c) South
 (d) South-West (e) None of these
16. Four boys, A, B, C and D are up on the ladder. A is further up the ladder than B. B is between A and C. If D is further up than A, who is the third from the bottom ?
 (a) B (b) C (c) A
 (d) D (e) None of these
17. Ajay and Vijay starts moving towards each other from two places 200 m apart. After walking 60 m, Vijay turns left and goes 20 m, then he turns right and goes 40 m. He then turns right again and comes back to the road on which he had started walking. If Ajay and Vijay walk with the same speed, what is the distance between them now ?
 (a) 20 m (b) 30 m (c) 40 m
 (d) 50 m (e) None of these
18. Six boys are so standing that they form a circle each facing the centre. Manish is to the left of Kaushal. Ashish is between Surya and Saurabh. Nitin is between Manish and Surya. Who is to the left of Surya?
 (a) Ashish (b) Saurabh (c) Nitin
 (d) Kaushal (e) Manish
19. A clock is so placed that at 12 noon its minute hand points towards North-East. Which direction does its hour hand point at 3 p.m. ?
 (a) North-West (b) South-West (c) South-East
 (d) North-East (e) None of these
20. Ayushi, Ishan, Shefali and Shaan are sitting on a bench. Shaan has Shefali next to her left. Ishan is sitting with Shaan and Ayushi on either side of her. Who sits at the extreme right ?
 (a) Shefali (b) Ayushi (c) Ishan
 (d) Shaan (e) None of these