

Direction Sense Test

Directions (1-25): Read the following information carefully to answer the questions that follow.

1. Manoj walked 30 metres towards East, took a right turn and walked 40 metres. Then he took left turn and walked 30 metres. In which direction is he now from the starting point?

- a. East b. South-East c. South
d. North-East e. None of these

2. If South-East becomes North, North-East becomes West and so on. What will West become?

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

3. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?

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

4. From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally, turning to East, he covered 10 km. In which direction is he from his house?

- a. East b. North c. West
d. South e. North-East

5. Ram started walking towards south. He took a right turn after walking 10m. He again started walking towards southeast after walking 25m. Which direction is he from the starting point?

- a. South b. Southeast c. North
d. Cannot be determined e. northeast

6. Starting from the point X, Jayant walked 15 m towards west. He turned left and walked 20 m. He then turned left and walked 15 m. After this he turned to his right walked 12 m. How far and in which directions is now Jayant from X?

- a. 32 m, South b. 47 m, East c. 42 m, North
d. 27 m, South e. None of these

7. Lakshman went 15 km to the West of his house, then turned left and walked 20 km. He then turned east and walked 25 km and finally turning left covered 20 km. How far was he from his house?

- a. 5 km b. 10 km c. 40 km
d. 80 km e. None of these

8. K is 40 m South-West of L. M is 40m South-East of L. Then, M is in which direction of K?

- a. North-East b. East c. West
d. South e. South-West

9. A person walks 4 km towards west, then turns to his right to travel 9 km. He turns towards east and travels 12 km. Finally, he travels 3 km towards south. How far is he from the initial position (in km)?

- a. 15 b. 23 c. 18 d. 10 e. 28

10. Rohan walks a distance of 3km towards North, then turns to his left and walks for 2 km. He again turns left and walks for 3km. At this point he turns to his left and walks for 3km. How far is he from the starting points?

- a. 1 km b. 2 km c. 3 km
d. 5 km e. None of these

11. One evening, Raja started to walk toward the Sun. After walking a while, he turned to his right and again to his right. After walking a while, he again turned right. In which direction is he facing?

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

12. I started walking down a road in the morning facing the Sun. After walking for some time I turned to my left. Then I turned to my right. In which direction was I going then?

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

13. A man starts his journey facing the sun early morning. He then turns right and walks 2 km. He then walks 3 km after turning right again. Which is the direction he is facing now?

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

14. Ravi in his evening walk travelled towards the sun 3 km, then he turned to his left walked 2 km. He again turned to his right and walked 3 km. Finally, he turned to his right walked another 2 km. In which direction is Ravi walking now?

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

15. One morning after sunrise, Vikram and Shailaish were standing in a town with their backs towards each other. Vikram's shadow fell exactly towards left and side. Which direction was Shailaish facing?

- a. East b. West c. North
d. South e. North south

16. One evening before sunset two friends Sumit and Mohit were talking to each other face to face. If Mohit's shadow was exactly to his right side, which direction was Sumit facing?

- a. North b. South c. West
d. Data inadequate e. None of these

17. Mani and Vinay are are two brothers who are facing each other. Shadow of Mani falls on the left side of Vinay , so in which direction Mani is facing?

- a. North b. Northwest c. South
d. Southwest e. Cannot be determined

18. One morning akash starts walking toward the Sun. After walking some distance he took a left turn then a right turn and again a left turn and stopped. In which direction akash is facing?

- a. north b. south c. east d. west

19. A clock is placed in such a way that when it is 12'O clock, the hands point towards North east direction. In which direction will the hour hand point at 6 PM?

- a. West b. East c. South
d. South-west e. South-east

20. A clock is placed at 12 noon its hour hand points towards north east. In which direction does its hour hand point at 1.30pm?

- a. North b. East c. South
d. West e. Cannot be determined

21. A man is facing west. He turns 45 degree in the clockwise direction and then another 180 degree in he same direction and then 270 degree in the anticlockwise direction. Find which direction he is facing now?

- a. South-West b. West c. South
d. South-East e. North-East

22. Sumit starts his journey by walking in South direction. After travelling a distance of 60 m, he turned to his right and travelled 45 m. Then he goes 30 m towards North and further travels by turning 45° in clockwise direction. In what direction is he travelling now?

- a. South-east b. North-east c. North-west
d. South-west e. East

23. Vinay started his journey towards north to reach his office. After reaching the office he turned 180° in clockwise direction and then 45° in anticlockwise direction. Which direction is he facing now?

- a. North west b. South east c. West
d. South west e. None of these

24. Kamal is facing South. He turns 135 degree in the anti-clockwise direction and then 180 degree in the clockwise direction. What direction is he facing now?

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

25. Surbhi is facing East. She turns 100 degree in the clockwise direction and then 145 degree in the anti-clockwise direction. Which direction is she facing now?

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

Type II – Puzzle Based Questions

Directions (1-3): Study the information given below carefully and answer the questions that follow:

Neelu started her journey from 'A' and walked 10 km eastwards to reach 'B', then she turned to her left and walked 3 km to reach 'C' and then she turned to her left again and walked 12 km to reach 'D'. Again she turned to her left and walked 3 km to reach 'E'.

1. How far is she from her starting point?

- a. 2 km b. 3 km c. 1 km
d. 2.5 km e. None of these

2. In which direction is point 'E' from point 'A'?

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

3. What is the direction of C with respect to E?

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

4. John's house is situated in North direction from his uncle's office at the distance of 100m. His uncle's house is situated in west from his uncle's office at the distance of 200m. Kabir is the friend of John, Kabir lives at 100m far in the east direction from John's house. Kabir's Office is in south direction from his house at the distance of 100m. How far is Uncle's house from Kabir's office?

- a. 200m b. 300m c. 400m
d. 500m e. None of these

5. A school driver drives school bus in north direction for a distance of 2km. Then he turns the bus left side and drives 5km straight. Then he turns bus in left side twice for a distance of 8km and 5km respectively. At last once more he took left turn and go for a distance of 1 km. How far is he from the starting point and in which direction he should drive to reach the starting point?

- a. 3km, North direction b. 7km, West direction
c. 6km, South direction d. 6km, West direction
e. 5km, North direction

6. A man travels 2 km to the north and turns east and travels 10 km and again he turns north and travels 3 km and again turns to east and travels 2 km. How far is he from the starting point?

- a. 10km b. 13km c. 15km
d. 17km e. None of these

7. Rajesh walked 8 km towards south-west direction. He turned to east direction and walked 20 km. Then he turned to north-east direction and walked 8km and after to west direction for 6km. Then he turned to north east direction and walked 2 km, then he turned west and walked 4km. Then he turned south-west and walked 2km. How far is he from the starting point?

- a. 12km b. 10km c. 8km
d. 6km e. None of these

8. A boy is looking for his mother. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his mother at his uncle's place 30 metres from this point. His mother was not there. From here he went 100 metres to his north before meeting his mother in a street. How far did the son meet his mother from the starting point?

- a. 110 m b. 100 m c. 90 m
d. 240 m e. None of these

Directions (9-11): Study the information given below carefully and answer the questions that follow:

Nakul starts walking from his office towards his house. He starts from the front gate of his office and walks 5m, then turns left and walks 2m, then turns left again and walks 4m, then he turns to his right and walks 3m, then turns left and walks 1m and then turns to his left again and walks 4m, then turns to his right and walks 10 m and finally turns right and walks 3m and thus reaches the front gate of his house.

9.If Nakul's house is situated in north direction, in which direction did he start walking?

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

10. Nakul's office is in what direction with respect to his house, If Nakul's house is situated in south direction?

- a. Southwest b. South c. Northwest
d. Cannot be determined e. None of these

11. What is the shortest distance between Nakul's house and his office (in m)?

- a. 5 b. $\sqrt{5}$ c. $5\sqrt{5}$ d. 120 e. None of these

Directions (12-15): Study the information given below Carefully and answer the questions that follow:

Eight persons M to T are standing in such a way that O is 20 m apart from N towards West, N is 30 m South with respect to M. M is 40 m towards West with respect to Q. P is 50 m towards South with respect to Q. R is 15 m apart from S towards North. T is 20 m towards East with respect to S. R is 40 m towards West with respect to P.

12. In which direction is Q standing with respect to R?

- a. North-West b. North c. North-East
d. Cannot be determined e. None of these

13. If one more person U is standing towards South- West with respect to P, then in which direction is T, standing with respect to U?

- a. South-West b. North-East c. North-West
d. Cannot be determined e. None of these

14. What is the direction of O with respect to S?

- a. North-West b. North c. West
d. Cannot be determined e. None of these

15. What is the shortest between T and R (in m)?

- a. 5 b. $5\sqrt{21}$ c. $\sqrt{221}$
d. $\sqrt{421}$ e. None of these

Type III – Long Puzzles

Directions (1-5): Study the following information and answer the questions given below:

There are AB axis in such a way that A is in north and B is in south direction. There is XY axis in such a way that X is in west direction and Y is in east direction. AB axis and XY axis intersect at a point Q in such a way that AQ is 13m, QB is 15m, QX is 10m, QY is 22 m. Sharvan starts walking from point X and walks 18m in south direction and then he takes a turn to his left and walks 30m. Siddharth starts walking from point A and walks 20m in east direction. Dipendra starts walking from point Y and walks 3m in north direction and then he takes a turn to his left and walks 2m and again he takes a turn to his left and walks 18m.

1.Point B is in which direction with respect to Dipendra's current position?

- a.south b.south-east c.south-est
d.west e.north-west

2.Point Y is in which direction with respect toSharvan's current position?

- a.north b.east c.north-east
d.north-west e.south

3.What is the distance between Siddharth's currentposition and Sharvan's current position?

- a.31m b.33m c.11m d.20m e.25m

4.What is the total distance between Sharvan's starting point and Dipendra's starting point (in m)?a.25b.49c.12d.34e.325.What is the shortest distance between B and Sharavan's starting point (in m)?

- a. $\sqrt{234}$ b. $\sqrt{325}$ c. $\sqrt{123}$
d. 16 e. 10

Directions (6-10): Study the following information and answer the questions given below:

Two buses A and B starts their journey from same depot but not necessary in the same order. Bus A starts moving 6 km towards north direction to point P then take a right turn and move 18km to reach point R, then take a left turn and move 12km to reach point S. Point P, Q and R lies in a same line. Point Q lies between P and R. Distance between P and Q is half of the distance between point Q and R. Bus B starts to move toward west 2km more than point Q and R from depot and reach point W, then take a right turn and walk 18km to reach point U. Point V lies between U and W. U, V and W lies in the same line as distance of V and W is double of the distance between U and V. from point U bus B take a right turn to reach point S. Point T lies between U and S in exact midway.

6. What is the total distance between U and S?

- a. 29km b. 32km c. 36km d. 30km e. 28km

7. In which direction is point T with respect to point W?

- a. North b. South c. North West
d. North East e. South West

8. A boy want to go depot and starts walking towards north from point W after reaching point V he suddenly realized that he is going in wrong direction. So what is the shortest route from point V to bus depot?

- a. Back to point W then go to depot from there
b. From point V he should going to east direction 14km then move towards south and reach depot
c. From point V going towards north to reach point U from there, he should reach point S than point R than P than depot
d. Both a and b
e. Can't determine

9. What is the distance between T and S?

- a. 14km b. 12km c. 16km
d. 18km e. 6km

10. Bus A is moving in which direction currently?

- a. West b. North East c. South
d. North e. East

Directions (11-15): In the following questions, the symbols &, %, @, * and # are used with the following meanings as illustrated below. Study the following information and answer the given questions:

Note: The directions which are given indicates exact directions.

A&B – A is in the south direction of B.

A*B – A is in the north direction of B.

A%B – A is in the east direction of B.

A#B – A is in the west direction of B.

A@BS- A is the mid-point of BS vertically.

Note– For southeast direction it used to be written as A&%B and so on...

When it is given that the Car honks once then it will be considered as the car taken a left turn and if it is given as the car honks twice then it will be considered as the car takes a right turn.

Point A is %15m of point B. Point C is *33m of point A.

Point D is *25m of point B. Point E is #20m of point D.

Point F is &40m of point E. Point G is %40m point F.

Point H@IG. Point I is *30m of Point G.

11. What distance the car has to travel from point I to reach the airplane which is parked at point A?

- a. 22m b. $6\sqrt{10}$ m c. 43 m
d. $5\sqrt{10}$ m e. 35m

12. What could the possible shortest route to reach point D from point C?

- a. Started in east till 15m, honks once, cover 8m
b. Started in west till 15m, honks twice, cover 8m
c. Started in south till 25m, honks once, cover 8m
d. Started in north till 5m, honks once, cover 8m
e. Started in west till 15m, honks once, cover 8m

13. Point I is in which direction from point F?

- a.& b.*# c.&# d.*% e.&%

14. If Point J is &15m of point B then which of the following is the position of J with respect to G?

- a. *, 24m b. #, 25 m c.&, 15 m
d. #, 20m e. None of these

15. Point H is in which direction from point B?

- a.& b.* c.# d.% e.&%

Answers: -

| Q.No | Ans | Q.No | Ans | Q.No. | Ans | Q.No | Ans |
|------|-----|------|-----|-------|-----|------|-----|
| 1 | B | 16 | B | 1 | A | 1 | D |
| 2 | C | 17 | E | 2 | B | 2 | C |
| 3 | D | 18 | A | 3 | C | 3 | A |
| 4 | B | 19 | D | 4 | B | 4 | E |
| 5 | D | 20 | B | 5 | E | 5 | B |
| 6 | A | 21 | A | 6 | B | 6 | B |
| 7 | B | 22 | B | 7 | B | 7 | D |
| 8 | B | 23 | B | 8 | B | 8 | D |
| 9 | D | 24 | B | 9 | A | 9 | C |
| 10 | A | 25 | B | 10 | C | 10 | D |
| 11 | A | | | 11 | E | 11 | D |
| 12 | A | | | 12 | C | 12 | E |
| 13 | C | | | 13 | D | 13 | D |
| 14 | C | | | 14 | A | 14 | D |
| 15 | D | | | 15 | E | 15 | D |