

APTITUDE AND REASONING (DIRECTION SENSE)

Directions (Q 1 -3): Eight persons M through 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.

1). In which direction is Q standing with respect to R?
a) North-West b) North
c) North-East d) Cannot be determined

2). 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

3). What is the direction of O with respect to S?
a) North-West b) North
c) West d) Cannot be determined

4). A boy is looking for his mother. He went 90 metres in the east before turning to his right. He went 20 meters 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

5). Kashmira facing towards south moved straight 8 km and from there turned to her right 90° and travelled 7 km. Then she took a 45° turn to her left and travelled 4 km. Where would she be now with respect to the starting point?
a) South b) South-west
c) North-east d) South-east

Direction (6-10): Read the following information carefully and answer the given questions.

X * Y means X is to the left of Y at a distance of 7m.
X # Y means X is to the south direction of Y at a distance of 5m.
X @ Y means X is to the right of Y at a distance of 3m.
X % Y means X is to the north direction of Y at a distance of 9m.
In each of the following questions initially, all persons are facing north.

6). B @ D % V # H @ K, then in which direction is K with respect to D?
a) North b) East c) South-west d) North-West

7). M % N, Q * M, N % G, L * Q then find the minimum distance between Q and N (approx)?
a) $\sqrt{12}$ m b) $\sqrt{130}$ m c) $\sqrt{81}$ m d) $\sqrt{49}$ m

8). S @ T * R % M * U, then T is in which direction with respect to U?
a) South b) North-West
c) West d) North-East

9). E # F * H % G * I then find the distance between E and H?
a) $\sqrt{72}$ m b) 9 m c) $3\sqrt{2}$ m d) $\sqrt{74}$ m

10). R # M @ N * O % P # Q, then Q in which direction with respect to R?
a) South b) North-West
c) West d) North-East

Directions (Q. 11-12): Study the information carefully and answer the questions given below. A man walks 8m towards east to reach point P. He turns to his right and walks 5m to reach point Q. Then, he turns to his left and walks 9m to reach point R and he turns to his right and walks 11m to reach point S. Finally he turns to his right and walks 20m to reach point T.

11). What is the distance between starting point and Q?
a) 13m b) 9m c) $\sqrt{89}$ m d) $3\sqrt{27}$ m

12). If a man walked 3m towards east from point T to reach point U, then what is the distance between point U and starting point?
a) 16m b) 25m c) 22m d) 33m

13). A person starts from point A, walks 5m towards south and reaches point B. He then turns left and walks 8m and reaches point C. He then takes a right turn and walks 6m. He takes a final right turn and walks 8m to reach point D. What is the distance between point C and D?
a) 13m b) 12m c) 10m d) 15m

14). A car started from point P and moves towards east. After moving a distance of 30m, it took a right turn, again after moving 15m, it took a left turn, and again after moving 10m, he took a right turn. Which direction is the car facing now?
a) North b) South c) West d) North-west

15). Rakesh is standing at a point. He walks 20m towards the East and further 10m towards the South, then he walks 35m towards the West and further 5 m towards the North, then he walks 15 m towards the East. What is the straight distance (in m) between his starting point and the point where he reached last?

a) 0 b) 5 c) 10 d) CND

16). Anoop starts walking towards South. After walking 15m he turns towards North. After walking 20m, he turns towards East and walks 10m. He, then turns towards South and walks 5m. How far is he from his original position in which direction?
a) 10m, North b) 10m, South
c) 10m, West d) 10m, East

17). Village Chimur is 20 km to the North of village Rewa. Village Rahate is 18 km to the East of village Rewa. Village Angne is 12 km to the West of Chimur. If Sanjay starts from village Rahate and goes to village Angne, in which direction is he from his starting point?
a) North b) North-West
c) South d) South-East

Direction : Read the given information carefully and answer the questions given beside: (A set of 3 questions)

Two friends Tinu and Dinu are driving car in Paris. Tinu is facing north and Dinu is facing south. They drive their cars for 80 meters in the direction they are facing and reached HDFC Bank and CUB ATM respectively. Then they turn right and drive for another 70 meters and reached PVR cinemas and Phoenix mall respectively. Then they take 90 degree anti clock wise direction for 40 meters and then they turn right. After driving for 30 meters Dinu reaches at CTS and Tinu reached at TCS.

18). Initially, if Dinu was 270 meters to the east of Tinu, then what is the shortest distance and direction of TCS with respect to CTS?
a. 250 meters, north-west
b. 250 meters, north-east
c. 240 meters, north d. Either A or C

19). Initially, if Dinu was 200 meters to the east of Tinu, then what is the shortest distance and direction of TCS with respect to CTS?
a. 250 meters, north-west
b. 250 meters, north-east
c. 240 meters, north d. Either A or C

20). Initially, if Dinu was 130 meters to the east of Tinu, then what is the shortest distance and direction of TCS with respect to CTS?
a. 250 meters, north-west
b. 250 meters, north-east
c. 240 meters, north d. Either A or C