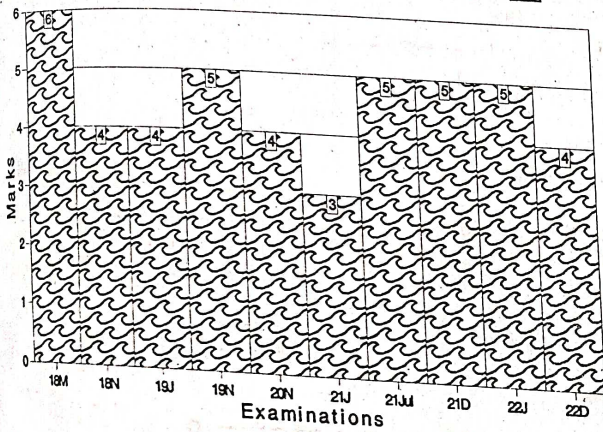


DIRECTION SENSE TEST

Marks of Objective, Short Notes, Distinguish Between, Descriptive & Practical Questions

Legend

- Objective
- Short Notes
- Distinguish
- Descriptive
- Practical

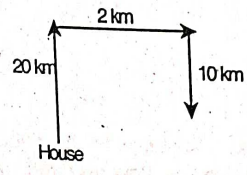


For detailed analysis Login at www.scanneradda.com for registration and password see first page of this book.

PRACTICE QUESTIONS OF MCQ

Q.1: Jairaj started from her house walked 20 km towards North. Now, he took a right turn and moved 2 km. Again he took right turn and walked for 10 km. In which direction he is going?
 (a) North (b) South
 (c) East (d) West

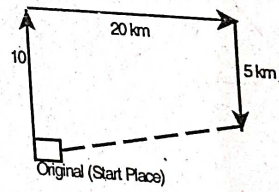
Answer:



Moving towards South

Q.2: Raj moved 10 km towards North, now he took a right turn and moved 20 km. again took turn towards South and moved upto 5 km. From the original position he is in which direction.
 (a) North (b) South
 (c) N-E (d) S-E

Answer:

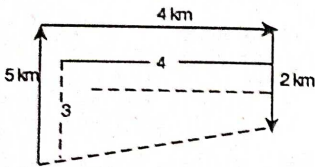


Now he is in N-E direction.

Q.3: Jai is going towards North upto 5 km he turned clockwise and moved upto 4 km and he took right turn moved upto 2 km. Find his distance from the start place.

- (a) 2 km (b) 3 km
(c) 4 km (d) 5 km

Answer:



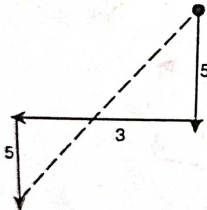
5 km from the start point.

Q.4: A man walks 5 km toward South and then turns to the right. After walking 3 km he turns to the left and walks five km. Now his direction from starting point is?

- (a) West (b) North
(c) N-E (d) S-W

Answer:

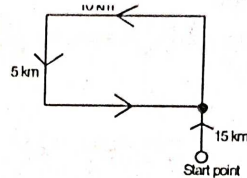
S - W



Q.5: From his house, Aditya 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 the East, he covered 10 km. In which direction is he from his house?

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

Answer:

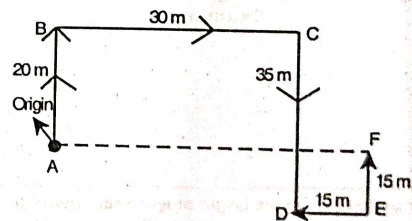


He is in North.

Q.6: Aditya walked 20 m towards North. Then he turned right and walks 30 m. Then he turns right and walk 35 m. Then he turns left and walk 15 m. In which direction and how many meters is he from the starting point?

- (a) 15 m West (b) 30 m East
(c) 30 m West (d) 45 m East

Answer:

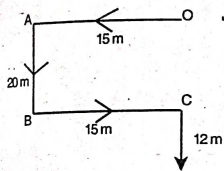


He is in 45 m in East.

Q.7: Starting from the points O, Vaibhav walked 15 m towards West. He turned left and walked 20 m. Again turned left and walked 15 m. Now he turned to his right and walked 12 m. How far he is now from the point O.

- (a) 32 m
- (b) 47 m
- (c) 42 m
- (d) 27 m

Answer:

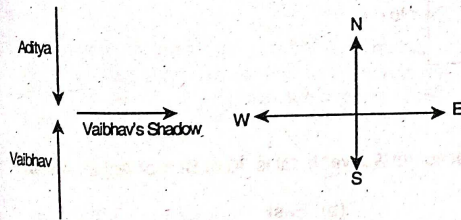


Now he is 32 m away from the points O.

Q.8: One evening before sunset Aditya and Vaibhav were talking, to each other face to face. If Vaibhav's shadow was exactly to the right of Vaibhav. Which direction was Aditya facing?

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

Answer:

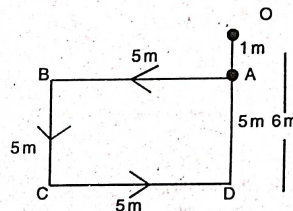


Aditya was facing towards South.

Q.9: Jay (Starts from A) walked 5 m towards West, then turned left and walked 5 m. again turned left and walked 5 m. again turned left and walked 6 m. How far he is from A.

- (a) 1 m
- (b) 2 m
- (c) 3 m
- (d) 4 m

Answer:

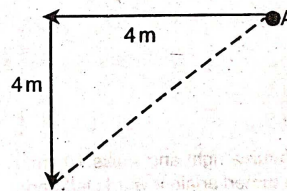


He is 1 m away.

Q.10: Raj started from point A, and walked towards West 4 m, then he turned towards South upto 4 m. In which direction he is from start point.

- (a) W-S
- (b) N-E
- (c) South
- (d) West

Answer:

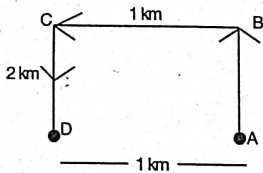


He is in South - West direction.

Q.11: A boy rode his bicycle Northward, then turned left and rode 1 km and again turned left and rode 2 km. He found himself 1 km West of his starting point. How far did he ride Northward initially?

- (a) 1 km
- (b) 2 km
- (c) 3 km
- (d) 4 km

Answer:

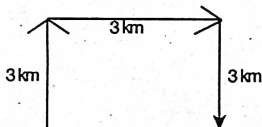


The boy rode 2 km Northward.

Q.12: A man starts from a point, walk 3 km towards North, turns towards his right and walks 3 km, turns right again and walk. What is the direction now he is facing?

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

Answer:

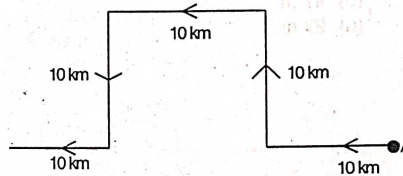


Facing towards South.

Q.13: Sona walks 10 km towards West, then turns right and walks 10 km. Again she take left turn and walk 10 km. She turned again towards left and moved upto 10 km. Finally she turns right and walk 10 km. How far she is now from start.

- (a) 10 km
- (b) 20 km
- (c) 30 km
- (d) 40 km

Answer:

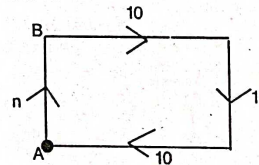


She is 30 m away from start point (A).

Q.14: A person moves towards North upto n meters, then walked towards East upto 10 km, then take right turn towards South and walked upto 10 km, again he moved towards West and reached at start point. What is the value of n.

- (a) 10 km
- (b) 20 km
- (c) 1 km
- (d) 2 km

Answer:

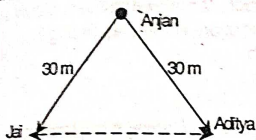


n = 10

Q.15: Jai is in which direction of Aditya. If Jai is 30 m S-W of Anjan. Aditya is 30 m S-E of Anjan.

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

Answer:

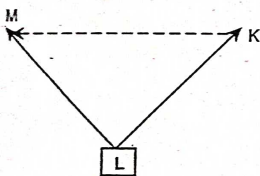


Jai is in West direction of Aditya.

Q.16: K is 40 m N-E of L, M is 40 m N-W of L. Then M is in which direction of K.

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

Answer:

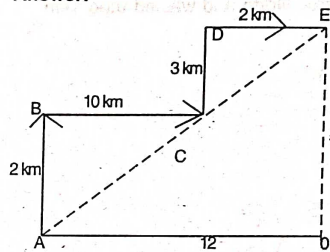


M is in West of K.

Q.17: A man walks 2 km towards North. Then he turns to East and walks 10 km. After this he turns to North and walks 3 km. Again he turns towards East and walks 2 km. How far is he from the starting point?

- (a) 10 km
- (b) 13 km
- (c) 15 km
- (d) 17 km

Answer:



$$AE^2 = AO^2 + OE^2$$

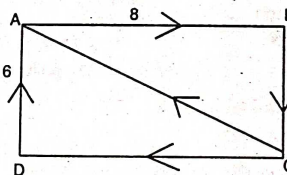
$$AE^2 = 12^2 + 5^2$$

$$AE = 13$$

Q.18: The length and breath of a room are 8 m and 6 m respectively. A cats runs along all the four walls and finally along a diagonal order to catch a rat.

- (a) 10
- (b) 14
- (c) 38
- (d) 48

Answer:



$$= \text{Perimeter} + AC$$

$$= 28 + \sqrt{8^2 + 6^2}$$

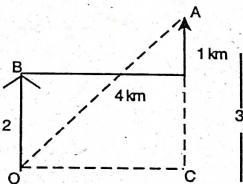
$$= 28 + 10$$

$$= 38$$

Q.19: A man starts from O and moved towards North 2 km, then take right turn and moved 4 km. again turned towards North and walked upto 1km reached at A. Find distance between OA.

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

Answer:



$$OA^2 = OC^2 + AC^2$$

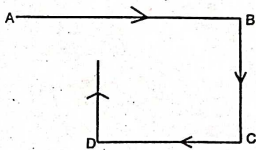
$$OA = \sqrt{16+9} = \sqrt{25} = 5$$

$$OA = 5 \text{ km.}$$

Q.20: One morning Sujata started to walk towards the Sun. After covering some distance she turned to right then again to the right and after covering some distance she again turns to the right. Now in which direction is she facing?

- (a) North (b) South
(c) N-E (d) S-W

Answer:



Sujata will face towards North.

Q.21: One day morning after sunrise, Vimal started to walk. During this he met Sheru who was coming from opposite direction. Vimal watch the shadow of Sheru to the right of him (Vimal) to which direction Vimal was facing?

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

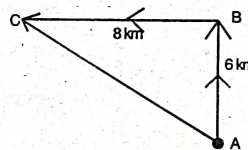
Answer:

(a) Sun rises in the East. So the shadow of a man will always fall towards the West. Since the shadow of Sheru is to the right of Vimal. Hence Vimal is facing towards South.

Q.22: Ramu is going towards North from his house. After covering a distance of 6 km he turned towards left and covered a distance of 8 km. What is the shortest distance from his house?

- (a) 15 km (b) 10 km
(c) 25 km (d) 20 km

Answer:

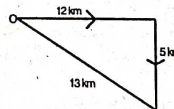


$$CA = \sqrt{8^2 + 6^2} = 10$$

Q.23: Ramji is going towards East, after 12 km he takes a right. Right turn and travel upto 5 km. Find his shortest distance now from his original place.

- (a) 13 km (b) 12 km
(c) 5 km (d) 17 km

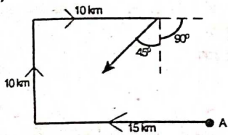
Answer:



Q.24: Shivam started from his house towards West. After walking a distance of 15 km he turned to the right and walked 10 km. He again turned to the right and walked 5 km. After this he is to turn right at 135° and covered 10 km. In which direction should he go?

- (d) South (b) S-W
(c) S-E (d) North

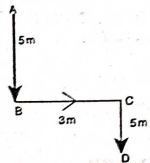
Answer:
(b) S - W



Q.25: Mr. AV started to walk straight towards South. After walking 5 m he turned to the left and walked 3 m. Now he turned to the right and walked 5 m now to which direction AV is facing?

- (a) N-E (b) South
(c) West (d) S-W

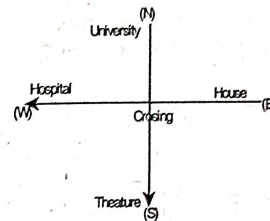
Answer: (b) South



Q.26: Hari 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

Answer:
(a) North



Q.27: After walking 6 km, I turned to the right and then walked 2 km. After that I turned to the left and walked 10 km. In the end, I was moving towards the North. From which direction did I start my Journey?

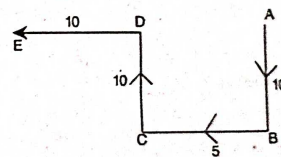
- (a) North (b) South
(c) East (d) West

Answer:
(b) South

Q.28: Ravi left home and cycled 10 km towards South, then he turned right and cycled 5 km and then again turned right and cycled 10 km. After this he turned left and cycled 10 km. How many km. will he have to cycle to reach his home straight?

- (a) 10 km (b) 15 km
(c) 12 km (d) 17 km

Answer:

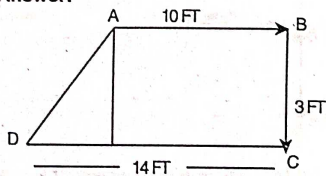


$AE = DE + CB = 15$

Q.29: Reena walked from A to B in the East 10 Feet. She turned to the right and walked 3 Feet. Again she turned to the right and walked 14 Feet. How far is she from A?

- (a) 4 FT
- (b) 5 FT
- (c) 12 FT
- (d) 13 FT

Answer:



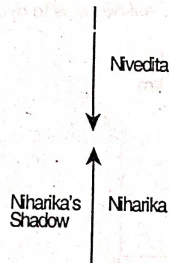
AD = 5 FT

Q.30: One morning after Sunrise Nivedita and Niharika were talking to each other face to face at Bara Chauraha. If Niharika's shadow was exactly to the right of Nivedita, which direction Niharika was facing?

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

Answer:

- (a) North



Q.31: If $A \times B$ means A is to the South of B, $A + B$ means A is to the North of B, $A \% B$ means A is to East of B, $A - B$ means A is to the West of B, then in $P \% Q + R - S$, S is in which direction with respect to Q.

- (a) S-W
- (b) S-E
- (c) N-E
- (d) N-W

Answer:

- (b) S-E

Q.32: One morning after Sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?

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

Answer:

- (d) South

Q.33: Four friends A, B, C, D live in a same locality. The house of B is in the East of A's house but in the North of C's house. The house of C is in the West of D's house. D's house is in which direction of A's house?

- (a) S-E
- (b) N-E
- (c) East
- (d) North

Answer:

- (a) S-E

Q.34: Shyam walks 5 km towards East and then turns left and walks 6 km. Again he turns right and walks 9 km. Finally he turns to his right and walks 6 km. How far is he from the starting point?

- (a) 26 km
- (b) 21 km
- (c) 14 km
- (d) 9 km

Answer:

- (c) 14 km

Q.35: Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now?

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

Answer:

- (a) North or South

Q.36: Rohit walked 25 m towards South. Then he turned to his left and walked 20 m. He then turned to his left and walked 25 m. He again turned to his right and walked 15 m. At what distance is he from the starting point and in which direction?

- (a) 35 m East (b) 35 m North
(c) 30 m West (d) 45 m East

Answer:

- (a) 35 m East

Q.37: Village Q is to the North of the village P. The village R is in the East of village Q. The village S is to the left of the village P. In which direction is the village S with respect to village R?

- (a) West (b) S-W
(c) South (d) N-W

Answer:

- (b) S-W

Q.38: Sachin walk 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting point.

- (a) 20 km (b) 40 km
(c) 60 km (d) 10 km

Answer:

- (a) 20 km

Q.39: Mohan starts from point A and walk 1 km towards South, turns left and walk 1 km. Then he turns left again and walk 1 km. Now he is facing.

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

Answer:

- (c) North

Q.40: A starts from a point and walks 5 km North, turns left and walk 3 km. Again turns left and walk 5 km. In which direction he is going now.

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

Answer:

- (b) South

Q.41: A man started walking West. He turned right, then right again and finally turned left. In which direction he is going now?

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

Answer:

- (a) North

Q.42: If a man on moped starts from a point and rides 4 km South then turns left and rides 2 km and turn again to the right to ride in which direction is he moving?

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

Answer:

- (d) South

Q.43: If X stands on his head with his face towards South, to which direction will his left hand point?

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

Answer:

- (b) West

Q.44: If A stands on his head with his face towards North. In which direction will his left hand point?

- (a) N-E (b) North
(c) East (d) N-W

Answer:

- (c) East

Q.45: A car traveling from South covers a distance of 4 km, then turns right and runs another 5 km and again turns to the right and was stopped. Which direction does it face now?

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

Answer:

- (a) South

Q.46: Town D is 12 km towards the North of town A. Town C is 15 km towards the West of town D. Town B is 15 km towards the West of town A. How far and in which direction is town B from town C?

- (a) 15 km towards North (b) 12 km towards North
(c) 3 km towards South (d) 12 km towards South

Answer:

- (d) 12 km towards South

Q.47: Town D is to the West of town M. Town R is to the South of town D. Town K is to the East of town R. Town K is towards which direction of town D.

- (a) South (b) East
(c) N-E (d) S-E

Answer:

- (d) S-E

Q.48-49: A vehicle starts from point P and runs 10 km towards North. It takes a right turn and runs 15 km. It now runs 6 km after taking a left turn. It finally takes a left turn, runs 15 km and stops at point Q.

Q.48: How far is point Q with respect to point P?

- (a) 16 km (b) 25 km
(c) 4 km (d) 0 km

Answer:

- (a) 16 km

Q.49: Towards which direction was the vehicle moving before it stopped at point Q?

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

Answer:

- (d) West

Q.50: Dev walks 20 m towards North. He then turns left and walks 40 m. He again turns left and walks 20 m. Further, he moved 20 m after turning to the right. How far is he from his original position?

- (a) 20 m (b) 30 m
(c) 50 m (d) 60 m

Answer:

- (d) 60 m

Q.51-52: A man went to meet his uncle in another village situated 5 km away in the N-E 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.

Q.51: How far away he is? From his house.

- (a) 3 km (b) 4 km
(c) 5 km (d) 6 km

Answer:

- (a) 3 km

Q.52: Which direction he is now from his house?

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

Answer:

- (b) East

Q.53: P, Q, R, S and T are sitting in a straight line facing North. P sits next to S. Q is sitting next to R who sits on the extreme left corner. Who sits to the left of S if T does not sit next to Q?

- (a) P (b) Q
(c) R (d) T

Answer:

- (b) Q

Q.54: Roza walked 25 m towards South, took a right turn and walked 15 m. She then took a left turn and walked 25 m. She is in which direction from starting point?

- (a) S-E (b) South
(c) S-W (d) N-W

Answer:

- (c) S-W

Q.55: Swati starts from a point walks 2 km towards North, turns towards her right and walks 2 km, turns right again and walks. In which direction is she going now?

- (a) North (b) S-E
(c) South (d) West

Answer:

- (c) South

Q.56: After walking 6 km, I turned right and covered a distance of 2 km, then turned left and covered a distance of 10 km. In the end, I was moving towards the North. From which direction did I start my Journey?

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

Answer:

- (b) South

Q.57: Rashmi leaves from her home. She first walks 30 m in N-W direction and then 30 m in S-W direction. Next, she walks 30 m in S-E direction. Finally, she turns towards her house. In which direction is she moving?

- (a) N-E
- (b) N-W
- (c) S-E
- (d) S-W

Answer:

- (a) N-E

Q.58: I am facing South. I turn right and walk 20 m. Then I turn right again and walk 10 m. Then I turn left and walk 10 m and then turning right walk 20 m. Then I turn right again and walk 60 m. In which direction I am from the starting point?

- (a) North
- (b) E-N
- (c) East
- (d) N-E

Answer:

- (d) N-E

Q.59: A Walks 3 km North and then he turns left and goes 2 km. He again turns left and goes 3 km. He turns right and walks straight. In which direction is he walking now?

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

Answer:

- (b) West

Q.60: A walks Southwards, then turn right, then left and then right. In which direction is he from the starting point?

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

Answer:

- (a) South

Q.61: A boy start walking towards West he turns right and again he turns right and then turn left at last. He is in which direction?

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

Answer:

- (b) North

Q.62: A person moves 4 km towards West, then turns right and moves 3 km and then turn right and moves 6 km, which direction he is moving?

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

Answer:

- (a) East

Q.63: 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

Answer:

- (a) East

Q.64: You go North, turn right, then right again and then go to left. In which direction are you now?

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

Answer:

- (b) East

Q.65: Suman starts from a point, walks 2 km towards North, turns towards her right and walks 2 km, turns right again and walks. What is the direction she is facing now?

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

Answer:

- (c) South

Q.66: Ramu starts walking in the morning facing the sun. After sometime, he turned to the left later again he turned to his left. Ramu is in which direction?

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

Answer:

- (b) West

Q.67: Mr. A walks Southwards and then turn right, then left and then right. He is in which direction?

- (a) South (b) North
(c) West (d) S-N

Answer:

- (c) West

Q.68: One morning, Rita started to walk toward the sun. After walking a while, she turned to her left and again to her left. She again turned right. Which direction is she facing now?

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

Answer:

- (c) North

Q.69: One day Nita left home and cycled 10 km Southwards. Turned right and cycled 5 km and turned right and cycled 10 km and turned left cycled 10 km. How many km will she have to cycle to reach her home straight?

- (a) 10 km (b) 15 km
(c) 20 km (d) 25 km

Answer:

- (b) 15 km

Q.70: A located to the West of B. C is located at North in between A and B. D is exactly to the South of B and also in line with B. In which direction of C is D located?

- (a) South (b) S-E
(c) West (d) S-W

Answer:

- (b) S-E

Q.71: Deepak walks 20 m towards North. He turns left and walks 40 m, again turns left and walks 20 m. Further he moves 20 m after turning to the right. How far is he from his original position?

- (a) 20 m (b) 60 m
(c) 50 m (d) 30 m

Answer:

- (b) 60 m

Q.72: Asha walks 3 km Southward and then turns right and walks 2 km. She again turns right and walks 3 km and turns towards her left and start walking straight. In which direction is she walking now?

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

Answer:

- (d) West

Q.73: Madhuri travels 14 km Westwards and then turns left and travels 6 km and further turns left and travels 26 km. How far is Madhuri now from the starting point?

- (a) $\sqrt{180}$ km (b) $\sqrt{80}$ km
(c) $\sqrt{110}$ km (d) $\sqrt{50}$ km

Answer:

- (a) $\sqrt{180}$ km

Q.74: Sohan drove 15 km to the West from his house, then turned left and drove 20 km. Again turned East and drove 25 km and finally turning left covered 20 km. How far he is from his house?

- (a) 40 km (b) 80 km
(c) 5 km (d) 10 km

Answer:

- (d) 10 km

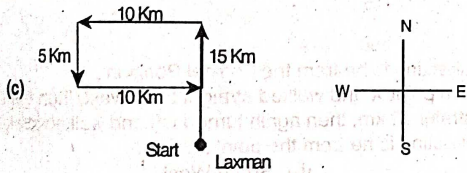
Q.75: Sandesh starts driving from point A and drives 12 km towards North. He takes a right turn and drive 20 km. He now drives 8 km after taking a left turn. Finally he takes a left turn and drives 20 km and stops at point B. How far is point A with respect to point B?

- (a) 20 km
 (c) 5 km
 Answer:
 (a) 20 km
- (b) 10 km
 (d) 9 km

PAST YEAR QUESTIONS AND ANSWERS

2018 - MAY

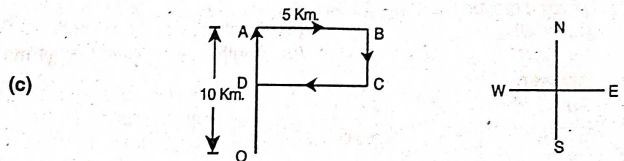
- [1] Laxman went 15 km to North then he turned West and covered 10 kms. Then he turned South and covered 5 km. Finally turning to East he covered 10 km. In which direction he is from his house.
 (a) East (b) West
 (c) North (d) South (1 mark)
 Answer:



Laxman is moving North direction now.

- [2] A man is facing East, then he turns left and goes 10 meter then turns right and goes 5 meter then goes 5 meter to the South and from there, 5 meter to West. In which direction is he from his original place?
 (a) East (b) West
 (c) North (d) South (1 mark)

Answer:



- North direction is he form his original place.
 [3] X walks southwards and then turns right, then left and then right. In which direction is he moving now?
 (a) South (b) North
 (c) West (d) South-west (1 mark)
 Answer:
 (c)



he is moving in west direction.

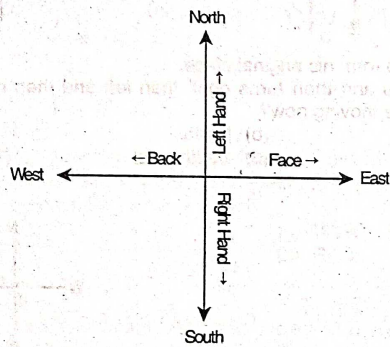
- [4] Raman starts walking in the morning facing the Sun. After sometime, he turned to the left, later again he turned to his left. In what direction is Raman moving now?
 (a) East (b) West
 (c) South (d) North (1 mark)
 Answer: (b)



Raman is moving now in West direction

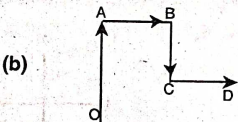
- [5] I stand with my right hand extended side-ways towards south. Towards which direction will my back be?
 (a) North (b) West
 (c) East (d) South (1 mark)

Answer:
 (b)

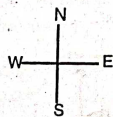


- [6] You go North, turn right, then right again and then go to the left. In which direction are you now?
 (a) South (b) East
 (c) West (d) North (1 mark)

Answer:



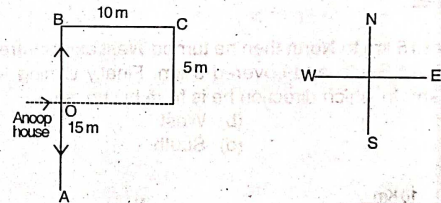
You are in East direction.



2018 - NOVEMBER

- [7] Anoop Starts walking towards South. After walking 15 metres, he turns towards North. After walking 20 metres, he turns towards East and walks 10 metres. He then turns towards south and walks 5 metres. In which direction is he from the original position.
 (a) North (b) South
 (c) East (d) West (1 mark)

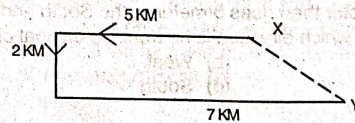
Answer:
 (c)



'East direction is he from the original Position'.

- [8] Rahim started from point X and walked straight 5 km west, then turned left and walked straight 2 km, then again turned left and walked straight 7 km. In which direction is he from the point X?
 (a) North-East (b) South-West
 (c) South-East (d) North-West (1 mark)

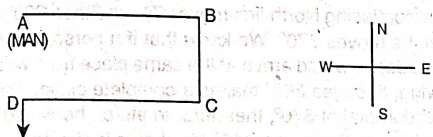
Answer:
 (c)



[9] A man started to walk East, After moving a distance, he turned to his right. After moving a distance, he turned to his right again. After moving a little he turned in the end to his left. In which direction was he going now?

- (a) East (b) West
(c) North (d) South (1 mark)

Answer:



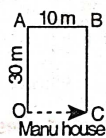
(d) He is going in south direction.

[10] Manu wants to go to the market. He starts from his house towards North and reaches a crossing after 30m. He turns towards East, goes 10m till the second crossing and turns again, moves towards South straight for 30m where marketing complex exits. In which direction is the market from his house?

- (a) North (b) South
(c) East (d) West (1 mark)

Answer:

(c)



Direction is the market from his house is east.

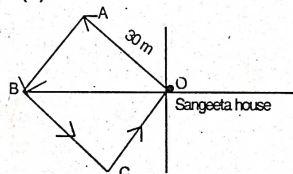
2019 - JUNE

[11] Sangeeta leaves from her home. She first walks 30 meters in north-west direction and then 30m in south west direction, next she walks 30 metres in south-east direction. Finally she turns towards her house. In which direction is she moving now?

- (a) North - West
(b) North - East
(c) South - East
(d) South - West (1 mark)

Answer:

(b)

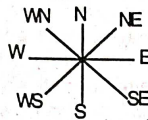
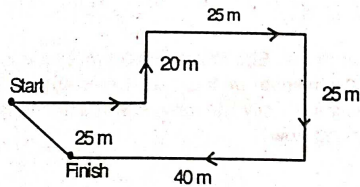


Sangeeta is moving North - East direction.

[12] When a person faces north and walks 25m right then turns left and walks 20m, and again turns right and walks 25m, and turns right, and walks 25m, and turns right and walks 40m, in which direction is he now from his starting point?

- (a) North - West
(b) North - East
(c) South - East
(d) South - West (1 mark)

Answer:
(c)

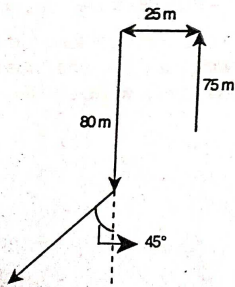


[13] Madhuri moved a distance of 75 meters toward north. She then turned to her left and walked for about 25m, turned left again and walked 80m. Finally, she turned to her right at an angle of 45° . In which direction was she moving now?

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

Answer:
(b)

(1 mark)



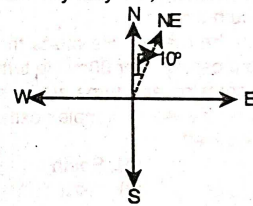
[14] A person facing North moves 70° in clockwise direction. He again moved 300° in clockwise direction. In which direction is he facing now?

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

(1 mark)

Answer:

(c) A person facing North first moves 70° and then 300° . Therefore, in total, he moves 370° . We know that if a person moves 360° from his place, he would arrive at the same place from where he started moving, because 360° makes a complete circle. This person has moved a total of 370° , therefore, in effect, he would be displaced from his position by only 10° , as shown in the figure below:



Therefore, he is facing North-East.

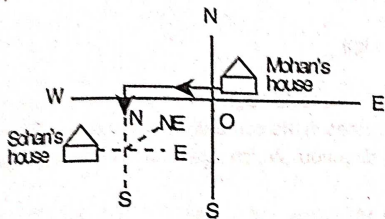
2019 - NOVEMBER

[15] Mohan started from a point and walked towards west. He took left to reach Sohan's house. In which direction should he move to reach his house:

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

(1 mark)

Answer:
(a)

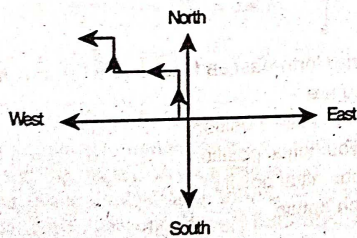


So, Mohan should move in north east direction from Sohan's house to reach his house.

[16] A man stands on a point and starts walking towards north. He then turns left, then turns right, and then left. In which direction he is moving now?

- (a) West (b) North
(c) East (d) South (1 mark)

Answer:
(a)



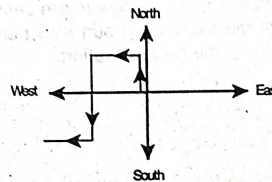
So, the man is moving in the west direction.

[17] A man started from a point facing north, then turned left, then again left, and then right. In which direction he is facing now?

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

(1 mark)

Answer:
(b)

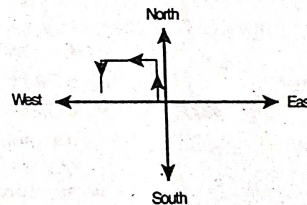


He is facing west.

[18] Rohan is driving cycle from house towards north, he turns left and then left again. Which direction he is facing now?

- (a) East (b) West
(c) North (d) South (1 mark)

Answer:
(d)



So Rohan is facing towards south.

[19] Sun rises behind the tower and sets behind the railway station. In which direction is the tower from railway station?

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

Answer:

(1 mark)

(c) Since the sun rises behind the tower. So tower is in east direction, railway station is in west direction since sun sets behind it. So tower is in east direction from the railway station.

2020 - NOVEMBER

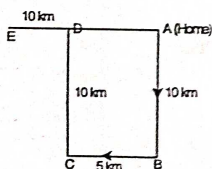
[20] One day, Ram left home and cycled 10 km southward, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?

- (a) 10
- (b) 15
- (c) 20
- (d) 25

Answer:

(1 mark)

(b)



he have to cycle to reach his home from

$$\begin{aligned}
 'E' &= EA \\
 &= DE + DA \\
 &= 10 \text{ km} + 5 \text{ km} \\
 &= 15 \text{ km}
 \end{aligned}$$

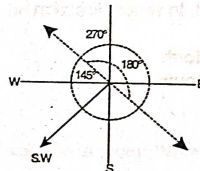
[21] A man is facing west he turns 45 degrees in the clockwise direction and then another 180 degrees in the same direction and then 270 degrees in the anticlockwise direction. Which direction is he facing now?

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

Answer:

(1 mark)

(a) South-west directions



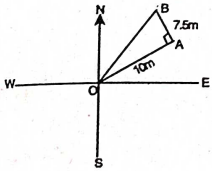
[22] If you are facing North-east and move 10m forward, man left and move 7.5m, then you are –

- (a) North of your initial position
- (b) South of your initial position
- (c) East of your initial position
- (d) None of the option

(1 mark)

Answer:

(a) North of your Initial position



[23] A man can walk by having long, medium and short steps. He can cover 60 meters by 100 long steps, 100 meters by 200 medium steps and 80 meters by 200 short steps, he walks taking 5000 long steps, then he turns left and walk by taking 6000 medium steps. He then turns right and walk by taking 2500 short steps. How far (in meters) is he away from his starting point?

- (a) 5000 m
- (b) 4000 m
- (c) 6000 m
- (d) 7000 m

(1 mark)

Answer:

(a) Distance per long step = $\frac{60}{100} = 0.6$ m

Distance per medium step = $\frac{100}{200} = 0.5$ m

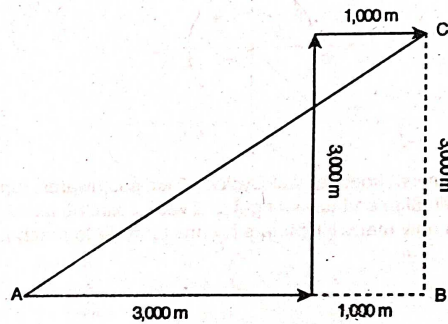
Distance per short step = $\frac{80}{200} = 0.4$ m

The question hasn't mentioned the direction in which the man has started walking, so we can assume any direction. Let's assume that this man started walking in the East direction. Since he took 5,000 long steps, he covered $5,000 \times 0.6 = 3,000$ metres.

Then, he turned left and walked by taking 6,000 medium steps. This means he is now moving North, and he covered a distance of $6,000 \times 0.5 = 3,000$ meters.

Then, he turned right and walked by taking 2,500 short steps. This means he is now moving towards East, and he covered a distance of $2,500 \times 0.4 = 1,000$ metres.

The following diagram will make this clear:



We need to find AC.

As per Pythagoras' Theorem,

$$AC^2 = AB^2 + BC^2$$

$$\Rightarrow AC = \sqrt{AB^2 + BC^2}$$

$$\Rightarrow AC = \sqrt{(4000)^2 + (3000)^2} = 5000$$

2021 - JANUARY

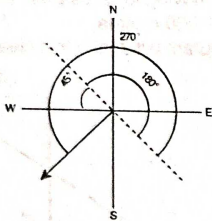
[24] A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anti-clockwise direction. Which is the facing now?

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

Answer:

- (a) South West

(1 mark)

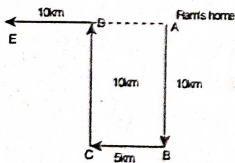


[25] One day Ram left home and bi-Cycled 10 km southwards, turned right and travelled 5 km and turned right and went 10 km he turned left and went 10 km how many kilometers he has to cycle to reach his home straight?

- (a) 10
- (b) 15
- (c) 20
- (d) 25

Answer:

- (b)



Here $DA = BC = 5 \text{ km}$
 $EA = ED + DA$
 $= 10 \text{ km} + 5 \text{ km} = 15 \text{ km}$

(1 mark)

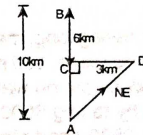
[26] Ms. N walks 10 km towards North from there she walks 6 km towards South. Then she walks 3 km towards East. How far and in which direction is she with reference to her starting point?

- (a) 4 km West
- (b) 6 km West
- (c) 3 km East
- (d) 5 km North/East

Answer:

- (d) Here $CA = (10 - 6) \text{ km} = 4 \text{ km}$

In $\triangle ACD$
 $AD^2 = AC^2 + CD^2$
 $= 4^2 + 3^2$
 $= 16 + 9$
 $AD^2 = 25$
 $AD = \sqrt{25}$
 $AD = 5 \text{ km}$



(1 mark)

2021 - JULY

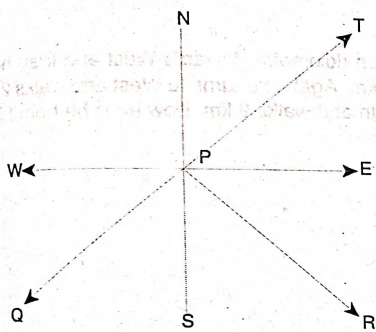
[27] There are four towns P, Q, R and T. Q is to the South-West of P, R is to the East of Q and South-East of P and T is to the North of R in line with QP. In which direction of P is T located?

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

(1 mark)

Answer:

(b)



(North-East)

[28] One morning after Sunrise, Vikram and Shailesh were standing a down with their back towards each other. Vikram's shadow fell exactly towards left hand side. Which direction was Shailesh facing?

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

(1 mark)

Answer:

(c) After sunrise, sun would be on East. Therefore, the shadows will be formed towards West. Since Vikram's shadow fell towards his left, that means Vikram's left is facing West. This means Vikram's right is facing East, and Vikram's face is facing North. Since Vikram and Shailesh are standing with their backs towards each other, their faces would be in opposite direction. Since Vikram's face is towards North, Shailesh's face will be towards South.

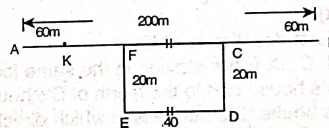
[29] A and B start moving towards each other from two places 200m apart. After walking 60m, B turns left and goes 20m, then he turns right and goes 40 m. He then turns right again and comes back to the road on which he had started walking. If A and B walk with the same speed, what is the distance between them now?

- (a) 80 m
- (b) 70 m
- (c) 40 m
- (d) 60 m

Answer:

(c)

(1 mark)



$$\text{Here } AK + KF + FC + CB = 200 \text{ m}$$

$$60 + KF + 40 + 60 = 200$$

$$KF = 200 - 60 - 40 - 60$$

$$KF = 40$$

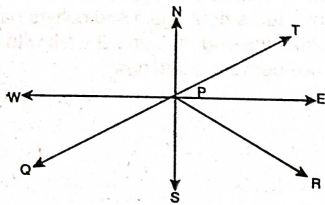
Now the distance b/w them is 40 km.

[30] There are four towns P,Q,R,T. Q is to the south west, of P, R is to the east of Q and south-east of P and T is to the north of R in line with QP. In which direction P is located?

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

(1 mark)

Answer:
(b)

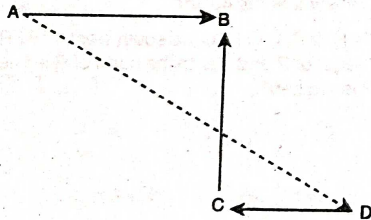


(North – East)
T is North – East direction w.r.t 'P'

[31] Five Friends A, B, C, D, E are staying in the same locality. B's house is to the East of A's house and to the North of C's house. C's house is to the West of D's house. D's house is in which direction with respect to A's house?

- (a) North-East (b) South-East
(c) North-West (d) South-West (1 mark)

Answer:
(b)

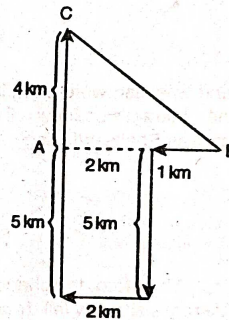


2021 - DECEMBER

[32] A person walks 1 km (kilometre) towards West and then he turns to South and walks 5 km. Again, he turns to West and walks 2 km. After this he turns to North and walks 9 km. How far is he from his starting point?
(a) 3 km
(b) 4 km
(c) 5 km
(d) 7 km

(1 mark)

Answer:
(c)



In the $\triangle ABC$, we need to find out BC.

As per Pythagoras' Theorem,

$$BC^2 = AB^2 + AC^2$$

$$\rightarrow BC = \sqrt{AB^2 + AC^2}$$

$$\rightarrow BC = \sqrt{(3)^2 + (4)^2} = 5$$

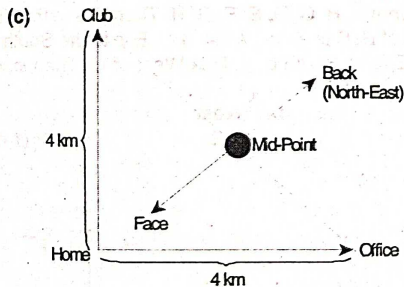
- [33] Daily in the morning the shadow of a Clock Tower installed on Railway Station falls on high rise Mall and in the evening the shadow of the same Mall falls on the Clock Tower installed on Railway Station exactly. So in which direction is Clock Tower to Mall?
 (a) Eastern side (b) Western side
 (c) Northern Side (d) Southern side (1 mark)

Answer:

(a) Sun rises in the East. Therefore, in the morning, the shadow of the things located in East will fall towards West, and in the evening the shadow of the things located in West will fall towards East. Here, since the shadow of the Clock Tower falls on the Mall in the morning, it means that Clock Tower is located on the Eastern side.

- [34] R's office is 4 km. in East direction from his home and club is 4km. in North direction from his home. On midway from office to club, R starts moving towards his home. In which direction is he facing his back?
 (a) South-East (b) North-West
 (c) North-East (d) South-West (1 mark)

Answer:

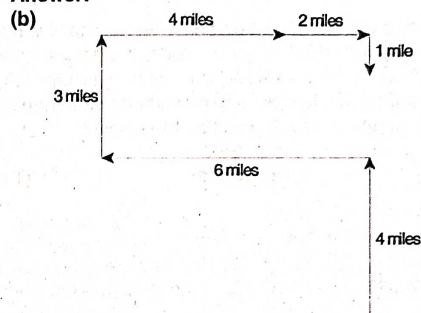


Clearly, the back of R is towards North-East.

- [35] A man starts from a point, walks 4 miles towards North and turns left and walks 6 miles, turns right and walks for 3 miles and again turns right and walks 4 miles and takes rest for 30 minutes. He gets up and walks straight 2 miles in the same direction and turns right and walks one mile. What is the direction he is facing?

- (a) North (b) South
 (c) South-East (d) West (1 mark)

Answer:



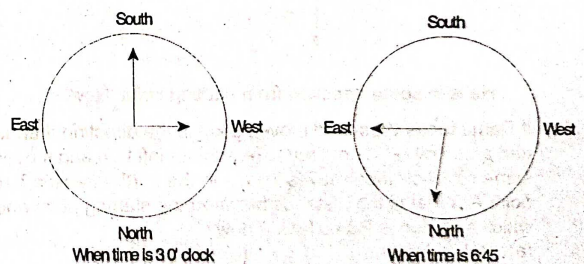
Therefore, he is facing South direction.

- [36] The hour hand of a clock is in west direction when time is 3'O clock. What is the direction of minutes hand when time is 6:45?

- (a) East (b) West
 (c) North (d) South (1 mark)

Answer:

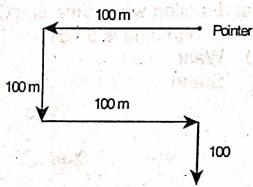
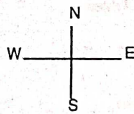
(a)



2022 - June

[37] A sign board pointing direction towards north due to heavy wind. The points of sign word shows west instead of North. If a person moves to same direction of pointer. He moves 100 meter than turn left, and moves 100 meter than again turn left and move 100 meter than he turn right & moves 100 meter. In which direction he is now?

- (a) West (b) East (c) North (d) South (1 mark)



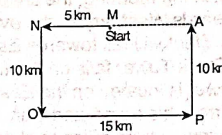
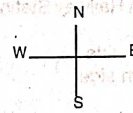
He is in south direction from starting point 'Now'

[38] If Ramu faces West and moves 5 km in the direction then takes a left turn and moves 10 km then take another left turn and moves 15 km in same direction then moves 10 km in the north direction and reaches point A. What is the distance between the starting point and A and in which direction is Ramu facing now?

- (a) 10 km, North (b) 5 km, South (c) 10 km, South (d) 5 km, North (1 mark)

Answer:

(a)



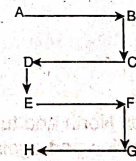
$$\text{Distance b/w M and A} = 15 \text{ km} - 5 \text{ km} = 10 \text{ km}$$

Direction - (North)

[39] If there are 8 polls from A, B, C, D, E, F, G, H. Then B is to the East of A, C is to the South of B, D is to the West of C, E is to the South of D, F is to the East of E, G is South of F, H is West of G. Then in which direction is H in respect to A.

- (a) North (b) West (c) South (d) East (1 mark)

Answer: (c)

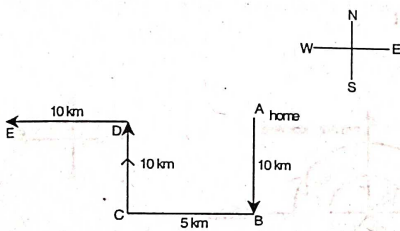


'H' is the South of 'A'

- [40] One day Ram left home and cycled 10 km southward, turned right and cycled 5 km and turned right and cycled 10 km and turned left to cycle 10 km. How many kilometers will he have to cycle to reach his home?
 (a) 10 (b) 20
 (c) 15 (d) 25

(1 mark)

Answer:
 (c)



The distance b/w A & E = $(10 + 5)$ km
 = 15 km

∴ 15 km will he have to cycle to reach his house.

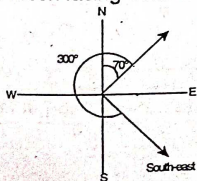
- [41] A person facing in North moves 70° in clockwise direction. He again moved 300° in anti clockwise direction. In which direction is he facing now?

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

(1 mark)

Answer:

- (b) Person facing south-east



2022 - December

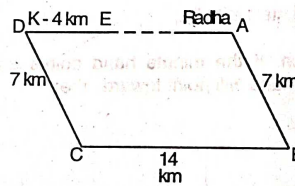
- [42] Radha moves towards South-East a distance of 7 km, then she moves towards West and travels a distance of 14 km. From here she moves towards North - West a distance of 7 km. and finally she moves a distance of 4 km. towards East. How far is she now from the starting point?

- (a) 3 km.
 (b) 4 km.
 (c) 10 km.
 (d) 11 km.

(1 mark)

Answer:

- (c)



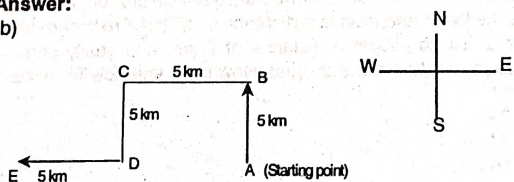
Here,

$$\begin{aligned} BC &= DA \\ BC &= OE + EA \\ 14\text{km} &= 4\text{ km} + EA \\ EA &= 14\text{ km} - 4\text{ km} \\ EA &= 10\text{ km} \end{aligned}$$

- [43] One morning a boy starts walking in a particular direction for 5 Km and then takes a left turn and walks another 5 Km. thereafter he again takes left turn and walks another 5 Km and at last he takes right turn, and walks 5 Km. Now he sees his shadow in front of him. What direction he did start initially?

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

Answer:
(b)

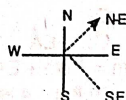
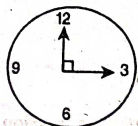


North direction he did start initially.

[44] It is 3'o clock in a watch. If the minute hand points towards the North-East then the hour hand will point towards the:

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

Answer:
(d)



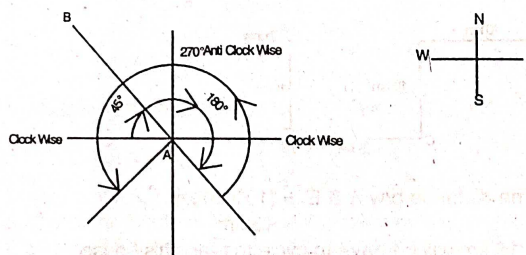
If the minute hand points towards North-East then the hour hand will point towards the South-East.

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

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

Answer:

(d)



Now he is facing south-west.

(1 mark)