

Assignment Distance & Direction

Sangeeta and Sonu both start from a point towards North. Sangeeta turns to left after walking 10 km. Sonu turns to right after walking the same distance. Sangeeta waits for some time and then walks another 5 km. Whereas Sonu walks only 3 km. They both then return towards South and walk 15 km. forward. How far is Sangeeta from Sonu?

(a) 8 km (b) 18 km (c) 20 km (d) 10 km

2. Ram 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 (c) 14 km (b) 21 km (d) 9 km

3. Village B is to the North of the village A. The village C is in the East of Village B. The village D is to the left of the village A. In which direction is the village D with respect to village C?
(a) West (b) South-West (c) South (d) North-West

4. Sandeep walks 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 position?
(a) 20 km (b) 30 km (c) 50 km (d) 60 km

5. From his house, Arjun went 15 km to the North. Then he turned west and covered 10 km. Then he turned towards 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) West (c) North (d) South

Direction: Study the information given below carefully and answer the question that follow.

6. P, Q, R, S, T, U and V are seven offices. U is 6 km to the east of Q. P is 8 km to the north of Q. V is exactly midway between P and Q. R is 10 km to the south of V. S is 3 km to the east of V. S is exactly midway between Q and U.

What is the distance between R and P?
(a) 4 km (b) 10 km (c) 18 km (d) 14 km

7. P, Q, R, S, T, U and V are seven offices. U is 6 km to the east of Q. P is 8 km to the north of Q. V is exactly midway between P and Q. R is 10 km to the south of V. T is 3 km to the east of V. S is exactly midway between Q and U.

What is the distance between T and U? (a) 2 km (b) 3 km (c) 4 km (d) 5 km

8. P, Q, R, S, T, U and V are seven offices. U is 6 km to the east of Q. P is 8 km to the north of Q. V is exactly midway between P and Q. R is 10 km to the south of V. T is 3 km to the east of V. S is exactly midway between Q and U.

If a person walks 4 km towards south from T, takes a right turn and walks for another 3 km, which of the following office would he reach?
(a) V (b) Q (c) R (d) U

9. P, Q, R, S, T, U and V are seven offices. U is 6 km to the east of Q. P is 8 km to the north of Q. V is exactly midway between P and Q. R is 10 km to the south of V. T is 3 km to the east of V. S is exactly midway between Q and U.

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If a person walks 3 km to east from R and then turns left and walks 6 km and then takes a right turn and walk 3 km, which of the following points will he be at?

(a)Q (b)S (c)T (d)U

10. At dusk, Rahul started walking facing the west, After a while, he met his friend and both turned to their left. They stopped for a while and started moving by turning again to their right. Finally, Rohit waved 'good bye' to his friend and took a left turn at a corner. At which direction is Rahul moving now?

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

11. Aunj and Chirag are riding their motorcycles. They start from the same point. Aunj rides 7 km North, then turns to his left and rides 4 km. In the meanwhile Chirag rides 6 km West, then turns towards North and rides 7 km, then turns to his left and rides 8 km. Where is Aunj with respect to Chirag?

(a) 4 km East (b) 10 km West (c) 4 km West (d) 10 km East

12. Aniket walks 17 km towards east. He turn left and walks 17 km. He turns left again and walks 24 km to reach point A. What is the straight line distance (in km) between the starting point and point A?

(a) $13\sqrt{2}$ (b) $14\sqrt{2}$ (c) $4\sqrt{2}$ (d) $11\sqrt{2}$

13. Gargi leaves from her college at 10:00 a.m. She starts walking towards north and covers a distance of 14 km. She turns right and walks 20 km to reach point K. She turns left and walk 16 km. She again turns left and walks 10 km. How far (in km) and in which direction is she now from point K?

(a) $3\sqrt{33}$ North-West

(b) $2\sqrt{89}$ North-West (c) $2\sqrt{89}$ North-East (d) $3\sqrt{33}$ North-East

14. On a playing ground P, Q, R, S and T are standing as described below facing the North. (i) Q is 50 meters to the right of S.

(ii) P is 60 meters to the South of Q.

(iii) R is 40 meters to the West of S.

(iv) T is 80 meters to the North of P.

What is the distance (in meters approximately) between R and T if travelled straight distance through the given points?

(a) 78 (b) 92 (c) 120 (d) 110

15. Rohit was walking in the evening just before the sunset. His wife said that, his shadow fell on his right. If the wife was walking in the opposite direction of the man, then which direction the wife was facing?

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

16. Rakesh left his home and moved in the direction of East and turned to his left after moving 10 kilometers. Then he moved 20 kilometers before turning to right. He moved 10 kilometers and turned towards right and moved 5 kilometers. How far is he from his home and in which direction?

(a) 35 km, North (b) 25 km, North-East (c) 25 Km, South-East (d) None of these

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17. Ramesh is 40 km away from Madhav in the South- West Direction. Rohan is 40 km away from Madhav in the South-East direction, then what is the direction of Rohan with respect to Ramesh? (a) North (b) South (c) East (d) West

18. Neelesh ran 15 m towards South, took a turn towards east and ran 20 m and again he took a turn towards the north and ran 15 m. What is the distance between his current position and his starting position?

(a) 10 m (b) 15 m (c) 30 m (d) 20 m

19. Sonu is doing an exercise with his legs up and head down. He is facing west. In which direction, will his left hand be?

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

20. Rana left her home for a run and ran 15 km in the Northern direction. Then, she turned left and ran 10 km. Then, she turned another left and ran 5 km. Finally, she took a turn to the east and ran 10 km. In which direction is her correct location with respect to her home?

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

1. a.2.c 3.b 4.a 5.c 6.d 7.d 8.b 9.d 10.a 11.d 12.a 13.b 14.d 15.b 16.b 17.c 18.d 19.a 20.a



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