


Direction and Distance Questions For SSC and Railway Exams

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Direction and Distance Questions For SSC and Railway Exams

Direction and Distance Questions for SSC (CGL/CHSL/CPO/MTS) and Railway (NTPC/Group D) Exams

1. Ranu walks 20 m north, then she turns left and walks 11m. Again she turns left and walks 32m. Finally she turns left and walks 11m. In which direction is she from her original point?

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

2. Ravi started from his house and walked 13m east, then he takes a left and walked 7m. Then again he takes a left and walks 8m. He finally takes right and walked 5m. What is the shortest distance between his house and final point?

- a) 15m
- b) 12m
- c) 13m
- d) 11m

3. Agrita walks 15m towards west, then she walks 4m towards north. Again she takes a turn and walks 3m towards the east. Finally she walked 9m towards south and comes to a halt. Agrita is how far from her initial position?

- a) 10m

b) 13m

c) 9m

d) 23m

4. Taneja starts from his office walks 22km towards south and walks 10m after taking right and he again take a right and walks 7m and then finally taken a left turn and walks 2km. If he moves 9m towards south, what is the direction of final point with respect to starting point.

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

5. Two army trucks start from same army base, 1st truck travels 11 km south, then turn to left and travel 19 km. 2nd truck travels 11 km west, then turns to its right and travel 5 km. Find the shortest distance between the final positions of both the truck?

- a) 36 km
- b) 32 km
- c) 17 km
- d) 34 km



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6. A person is facing towards north east. He turns 180° clockwise and then 45° anticlockwise. Finally he turns 60° clockwise. Now, the person is facing in which direction?

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

7. Rupali is standing facing south. She walks 16km straight, then turns left and walks another 13km and turns right and walks 7km. Finally turns left and walks 9km to reach her office. Which direction is she facing now?

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

8. A is 13m south east of B and C is 12m south of B. In which direction is C with respect to A?

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

9. One night Raushan walked towards a star to his east, after sometime he turned right and again takes a

right and walk for 4km. Finally he takes a left turn. In which direction is Raushan facing now?

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

10. Lucifer walks 13km towards south, then he walks 10km towards north. Finally he walks 4km towards east. Find the distance between his starting and final point.

- a) 7km
- b) 5km
- c) 10km
- d) 9km

11. Ranu walks 20 m north, then she turns left and walks 11m. Again she turns left and walks 32m. Finally she turns left and walks 11m. Find the distance between her initial and final position?

- a) 11 m
- b) 12 m
- c) 10 m
- d) 15 m

12. Ravi started from his house and walked 13m east, then he takes a left and walked 7m. Then again he takes a left and walks 8m. He finally takes right and



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walked 5m. In which direction is his starting point with respect to the point where he stopped?

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

13. Agrita walks 15m towards west, then she walks 4m towards north. Again she takes a turn and walks 3m towards the east. Finally she walked 9m towards south and comes to a halt. In which direction is the halt with respect to her initial position?

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

14. Taneja starts from his office walks 22km towards south and walks 10m after taking right and he again take a right and walks 7m and then takes a left turn and walks 2km. Again, he moves 9m towards south. Finally he takes a left turn and walks 12 m. Find the distance between his final and initial position.

- a) 24 m
- b) 20 m
- c) 11 m
- d) 12 m

15. Two army trucks start from same army base, 1st truck travels 11 km south, then turn to left and travel 19 km. 2nd truck travels 11 km west, then turns to its right and travel 5 km. In which direction is Truck 1 with respect to Truck 2?

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

16. A person is facing towards East. He turns 270° clockwise and then 45° anticlockwise. Finally he turns 120° anticlockwise. Now, the person is facing in which direction?

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

17. Rupali is standing facing south. She walks 16km straight, then turns left and walks another 13km and turns right and walks 7km. Then she turns left and walks 9km to reach her office. From her office, she walked 9 km towards North and then stopped walking. In which direction is she now from her starting point?

- a) North-East
- b) South-West



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c) North-West

d) South-East

18. A is 13m south east of B and C is 12m south of B. Find the shortest distance between A and C?

a) 5m

b) 12m

c) 15m

d) 7m

19. One night Raushan walked towards a star to his east, after sometime he turned right and again takes a right and walk for 4km. Finally he takes a left turn. In which direction is Raushan's starting point with respect to the point where he stopped walking?

a) North-East

b) South-West

c) North-West

d) South-East

20. Lucifer walks 13km towards south, then he walks 10km towards north. Finally he walks 4km towards east. In which direction is he now with respect to his starting point?

a) North-East

b) South-West

c) North-West

d) South-East

21. A man facing towards north, first moves 45° in clockwise direction then he turns 90° in anticlockwise direction. At last he turn 135° clockwise. Now which side is he facing?

a) East

b) West

c) North

d) South

22. A man is walking towards west. He walks 15m, then turns left and walks 5m. Again he turns to his left and walks 10m. Finally, he turns to his right and walks 5m. In which direction is he going now?

a) East

b) West

c) North

d) South

23. A man is walking towards west. He walks 15m, then turns left and walks 5m. Again he turns to his left and walks 10m. Finally, he turns to his right and walks 5m. In which direction is he with respect to his initial position?

a) North-East

b) South-West

c) North-West



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d) South-East

24. A man is walking towards west. He walks 15m, then turns left and walks 5m. Again he turns to his left and walks 10m. Finally, he turns to his right and walks 5m. How far is he from the initial point?

a) $5\sqrt{5}$ m

b) $5\sqrt{2}$ m

c) $15\sqrt{5}$ m

d) $25\sqrt{5}$ m

25. Sunita is facing east. She walked 1 km and then turned to south and walked 5 km. She now turns to east and walked 2 km. At last she turned north and walked 9 km. In which direction is she now with respect to her initial point?

a) North-East

b) South-West

c) North-West

d) South-East

26. Sunita is facing east. She walked 1km and then turned to south and walked 5km. She now turns to east and walked 2km. At last she turned north and walked 9km. Find the shortest distance between her initial and final position.

a) 50 mm

b) 5 cm

c) 5 m

d) 5 km

27. P is 6 km to the south of R. T is 4 km to the east of P. Q is 10 km to the south-west of R. S is 3 km to the south of T. Find the shortest distance between P and S?

a) 3 km

b) 5 km

c) 4 km

d) None of the above

28. P is 6 km to the south of R. T is 4 km to the east of P. Q is 10 km to the south-west of R. S is 3 km to the south of T. Find the shortest distance between P and Q.

a) 12 km

b) 13 km

c) 7 km

d) 8 km

29. P is 6 km to the south of R. T is 4 km to the east of P. Q is 10 km to the south-west of R. S is 3 km to the south of T. In which direction is T with respect to Q?

a) East

b) West

c) North



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d) South

30. P is 6 km to the south of R. T is 4 km to the east of P. Q is 10 km to the south-west of R. S is 3 km to the south of T. In which direction is R with respect to S?

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

31. From point A, Mohan walks 20 m in the north. Then turns to his right and walks 20 m to reach point B. In which direction is point B with respect to point A?

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

32. From point A, Mohan walks 20 m in the north. Then turns to his right and walks 20 m to reach point B. Find the shortest distance between A and B.

- a) $5\sqrt{2}$ m
- b) $10\sqrt{2}$ m
- c) $20\sqrt{2}$ m
- d) $20\sqrt{5}$ m

33. Megha started walking from point A and walk 15 km towards east and stops at point B. Now, she turns 90° to her left and walks 12 km to reach a point C. In which direction is point A with respect to point C?

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

34. Sharmila walks 100 m to the north direction from her house. Then she walks 40m to the south. Now she turns to her right and walks 80m. In which direction is she now with respect to her house?

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

35. Sharmila walks 100 m to the north direction from her house. Then she walks 40m to the south. Now she turns to her right and walks 80m. Find the distance between her initial and final point.

- a) 60m
- b) 40m
- c) 80m
- d) 100m



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36. In the morning after sunrise, Sita and Gita were talking to each other standing in front of each other. If the shadow of Sita falls to the left of Gita, then in which direction is Sita's face?

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

37. In the morning after sunrise, Sita and Gita were talking to each other standing in front of each other. If the shadow of Sita falls to the left of Gita, then in which direction is Gita's face?

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

38. In the evening after sunset, Mitu and Abhi were talking to each other standing in front of each other. If the shadow of Mitu falls to the right of Abhi, then in which direction is Mitu's face?

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

39. In the evening after sunset, Mitu and Abhi were talking to each other standing in front of each other. If the shadow of Mitu falls to the right of Abhi, then in which direction is Abhi's face?

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

40. Anjana is facing South. She walks 9 km and reaches point Z and then after taking a right turn she walks 12 km to reach point Y. Finally she turns to the North and walks 4 km to reach point E. In which direction is point Z with respect to point E?

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

41. Anjana is facing South. She walks 9 km and reaches point Z and then after taking a right turn she walks 12 km to reach point Y. Finally she turns to the North and walks 4 km to reach point E. Find the shortest distance between point Y and her starting point.

- a) 10 m
- b) 15 m
- c) 5 m



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d) 17 m

42. Anjana is facing South. She walks 9 km and reaches point Z and then after taking a right turn she walks 12 km to reach point Y. Finally she turns to the North and walks 4 km to reach point E. In which direction is point E with respect to the starting point?

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

43. Amrita starts walking from Market towards her house. She walks 10 m towards east to reach Bus stand and then turns to her left and walks 15 m to reach a shop. She buys Lays and then turns to her right and walks 25 m to reach her house. In which direction is her house with respect to market?

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

44. Amrita starts walking from Market towards her house. She walks 10 m towards east to reach Bus stand and then turns to her left and walks 15 m to reach a shop. She buys Lays and then turns to her right and walks 25 m to reach her house. Find the shortest distance between shop and market.

- a) $5\sqrt{13}$ m

b) 15 m

c) 25 m

d) $13\sqrt{5}$ m

45. Amrita starts walking from Market towards her house. She walks 10 m towards east to reach Bus stand and then turns to her left and walks 15 m to reach a shop. She buys Lays and then turns to her right and walks 25 m to reach her house. In which direction is the bus stand with respect to Amrita's house?

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

46. Aditi is facing south. She turns to her left and walks 25 m and now takes a right turn and walks 5 m to reach point L. Now she turns to her right and walks 10 m and thus reaches point K. Find the shortest distance between point K and starting point.

- a) $23\sqrt{2}$ m
- b) $10\sqrt{23}$ m
- c) $\sqrt{230}$ m
- d) $\sqrt{250}$ m

47. Aditi is facing south. She turns to her left and walks 25 m and now takes a right turn and walks 5 m to reach point L. Now she turns to her right and



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walks 10 m and thus reaches point K. In which direction is L with respect to the starting point?

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

48. Akash walks 10 m in a southeast direction and then turns to north and walks 8 m. Now, he turns to his left and walks 6 m and then again turning to his left he walks another 3 m. Which direction is he facing now?

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

49. Megha started walking from point A and walk 15 km towards east and stops at point B. Now, she turns 90° to her left and walks 12 km to reach a point C. In which direction is point C with respect to point A?

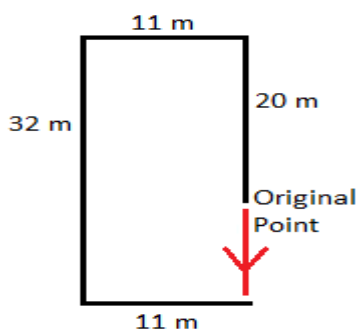
- a) North-East
- b) South-West
- c) North-West
- d) South-East

50. Rohan leaves his house and moves 30 km in a northwest direction and 30 km in southwest direction. Next, he moves 30 km in southeast direction. Then he moves 30 km in northeast direction. How far away is he from his house?

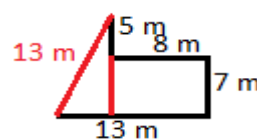
- a) 0 km
- b) 5 km
- c) 20 km
- d) 30 km

ANSWERS

1) Answer: A



2) Answer: C



Shortest distance between his house and final point =
 $\sqrt{5^2 + 12^2}$ m
 $= \sqrt{25 + 144}$ m

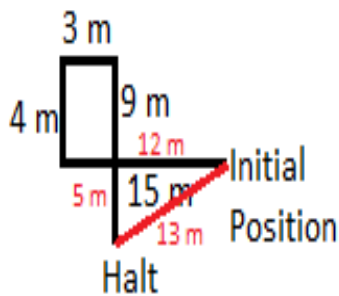


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$$= \sqrt{169} \text{ m}$$

$$= 13 \text{ m}$$

3) Answer: B



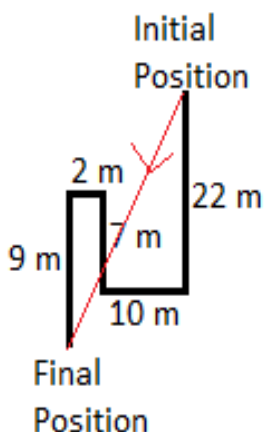
Distance between Agrita's final position and initial position = $\sqrt{5^2 + 12^2} \text{ m}$

$$= \sqrt{25 + 144} \text{ m}$$

$$= \sqrt{169} \text{ m}$$

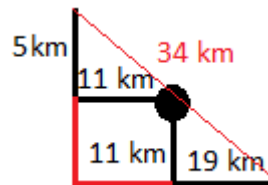
$$= 13 \text{ m}$$

4) Answer: B)



South-West

5) Answer: D)



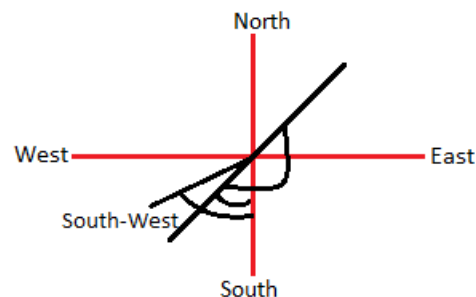
The shortest distance between the final positions of both the truck = $\sqrt{30^2 + 16^2} \text{ km}$

$$= \sqrt{900 + 256} \text{ km}$$

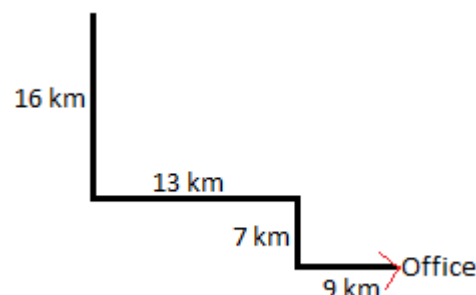
$$= \sqrt{1156} \text{ km}$$

$$= 34 \text{ km}$$

6) Answer: B

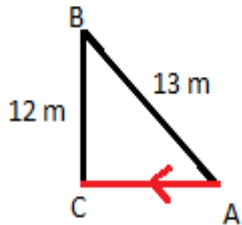


7) Answer: C



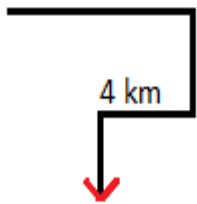
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8) Answer: A



C is to the west of A.

9) Answer: D



10) Answer: B



The distance between his starting and final point =

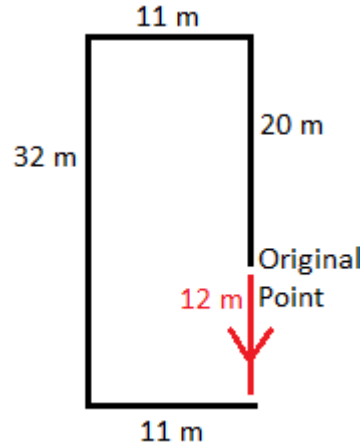
$$\sqrt{3^2 + 4^2} \text{ km}$$

$$= \sqrt{9 + 16} \text{ km}$$

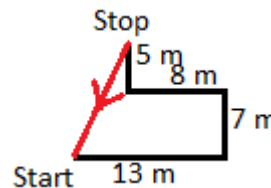
$$= \sqrt{25} \text{ km}$$

$$= 5 \text{ km}$$

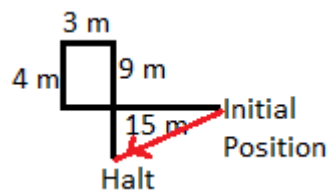
11) Answer: B



12) Answer: B

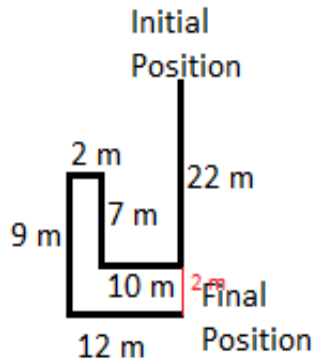


13) Answer: B



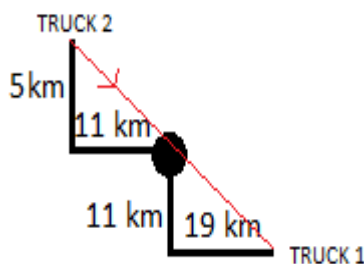
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14) Answer: A

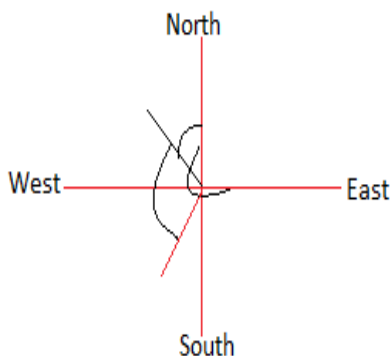


The distance between his final and initial position = $22 + 2 = 24$ m

15) Answer: D

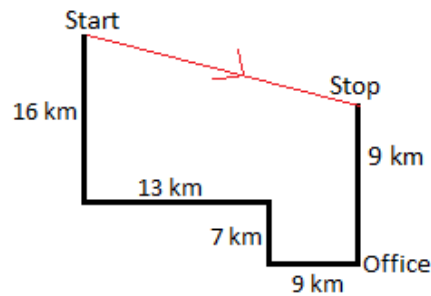


16) Answer: B

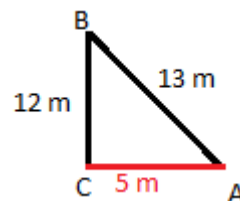


South-West

17) Answer: D



18) Answer: A



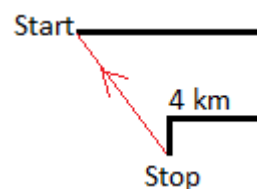
The shortest distance between A and C = $\sqrt{13^2 - 12^2}$ m

$$= \sqrt{169 - 144} \text{ m}$$

$$= \sqrt{25} \text{ m}$$

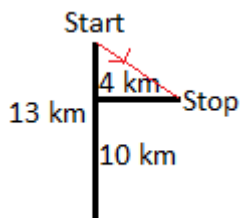
$$= 5 \text{ m}$$

19) Answer: C

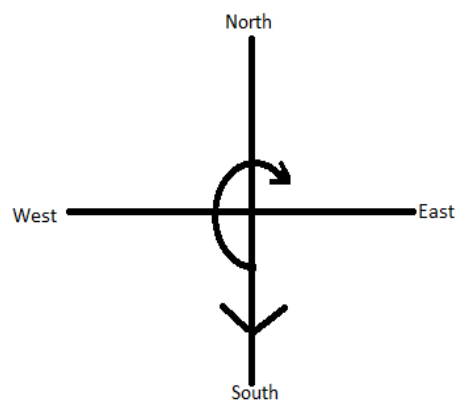


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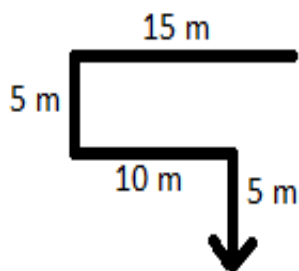
20) Answer: D



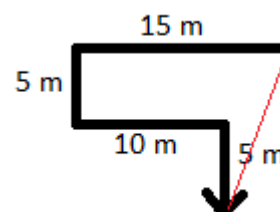
21) Answer: D



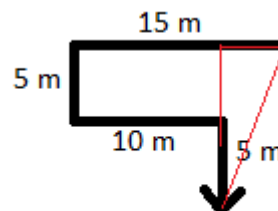
22) Answer: D



23) Answer: B



24) Answer: A



Distance between his final and initial point = $\sqrt{5^2 + 10^2}$

$$= \sqrt{25 + 100}$$

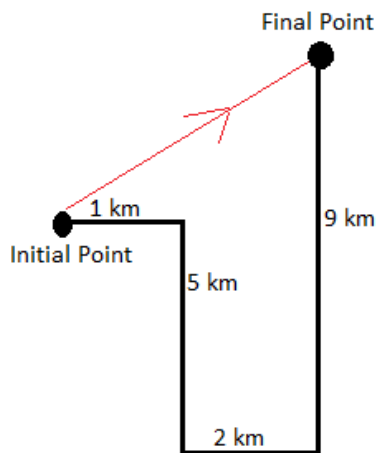
$$= \sqrt{125}$$

$$= 5\sqrt{5} \text{ m}$$

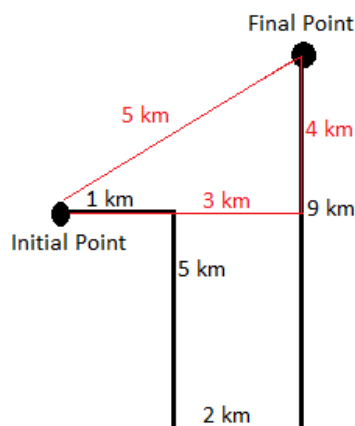


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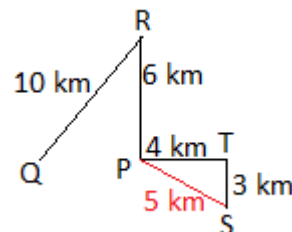
25) Answer: A



26) Answer: D

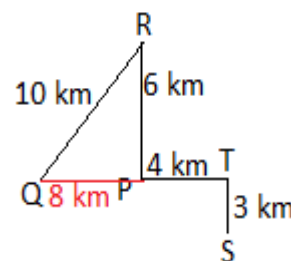


27) Answer: B



$$\begin{aligned} \text{The shortest distance between P and S} &= \sqrt{4^2 + 3^2} \\ &= \sqrt{16 + 9} \\ &= \sqrt{25} \\ &= 5 \text{ km} \end{aligned}$$

28) Answer: D

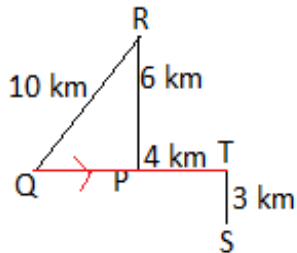


$$\begin{aligned} \text{The shortest distance between P and Q} &= \sqrt{10^2 - 6^2} \\ &= \sqrt{100 - 36} \\ &= \sqrt{64} \\ &= 8 \text{ km} \end{aligned}$$



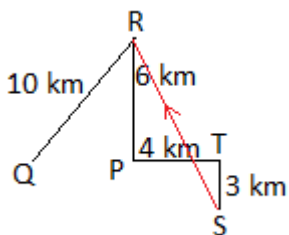
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29) Answer: A



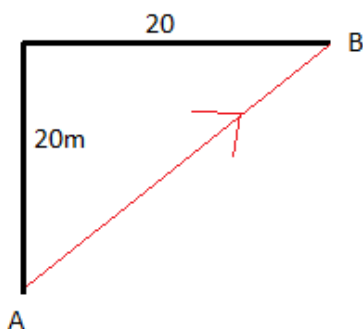
T is to the east of Q.

30) Answer: C

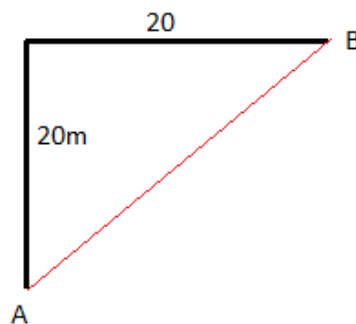


R is to the North-West of S.

31) Answer: A

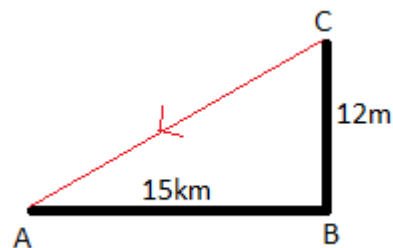


32) Answer: C



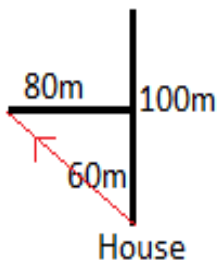
$$\begin{aligned} \text{The shortest distance between A and B} &= \sqrt{20^2 + 20^2} \\ &= \sqrt{400 + 400} \\ &= \sqrt{800} \\ &= 20\sqrt{2} \text{ m} \end{aligned}$$

33) Answer: B

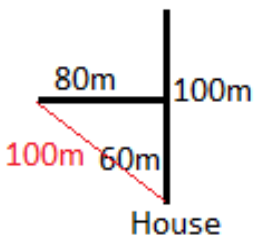


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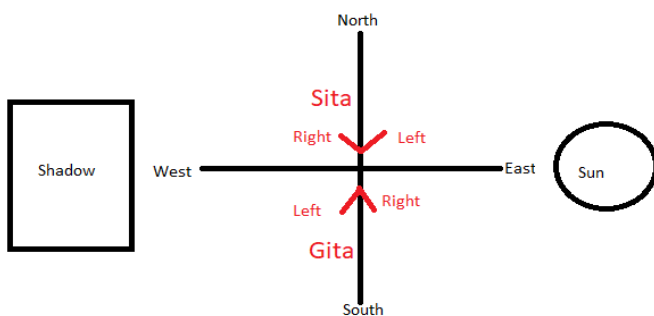
34) Answer: C



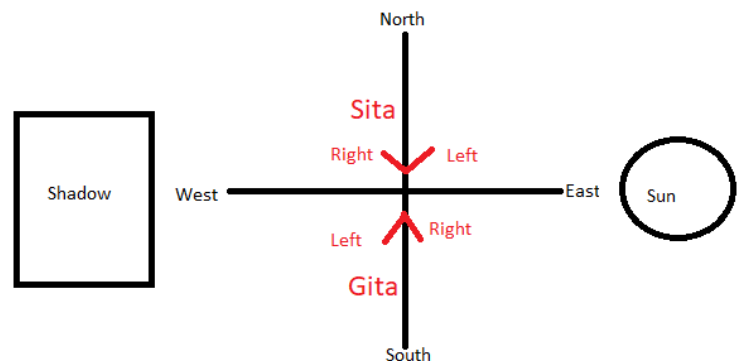
35) Answer: D



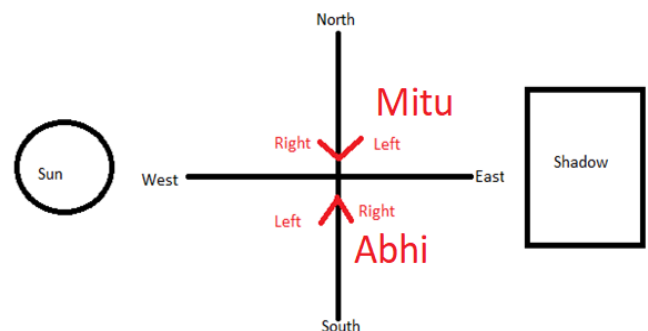
36) Answer: D



37) Answer: C

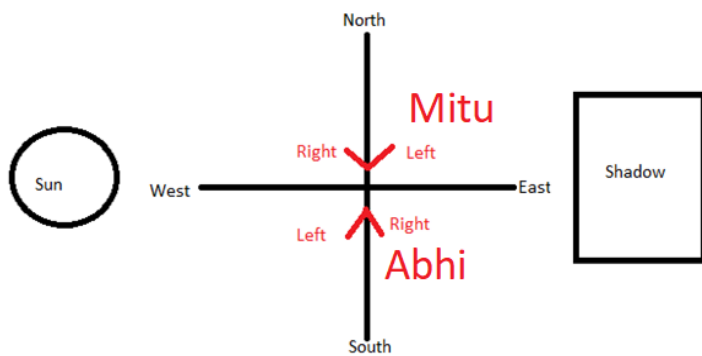


38) Answer: D

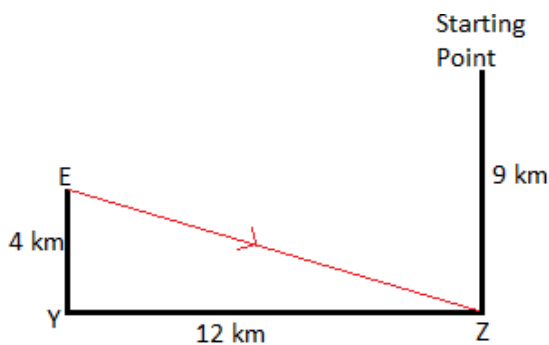


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39) Answer: C



40) Answer: D



41) Answer: B



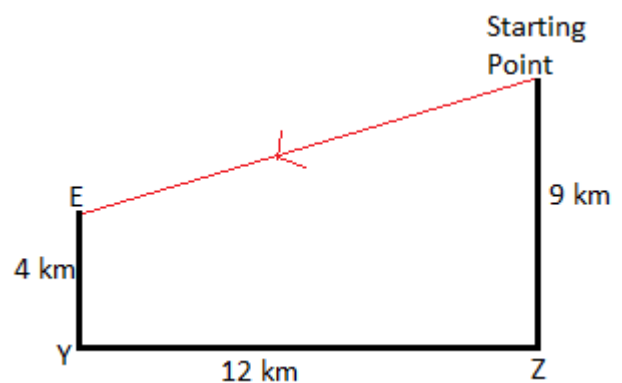
The shortest distance between point Y and her starting point = $\sqrt{9^2 + 12^2}$

$$= \sqrt{81 + 144}$$

$$= \sqrt{225}$$

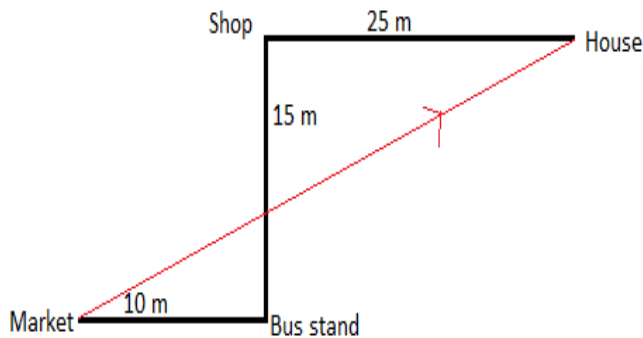
$$= 15 \text{ m}$$

42) Answer: B

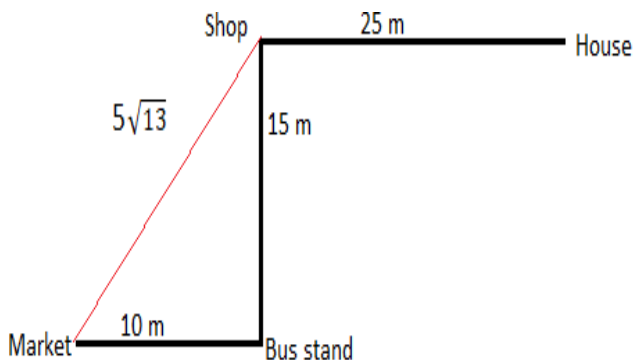


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43) Answer: A



44) Answer: A



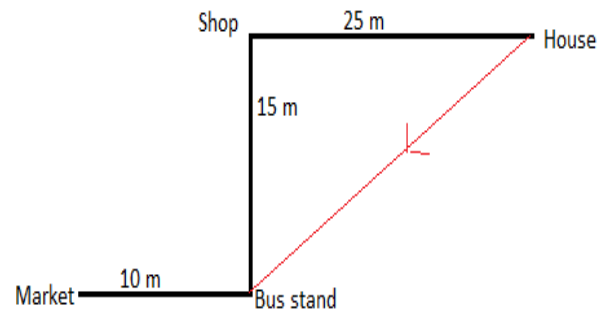
The shortest distance between shop and market = $\sqrt{15^2 + 10^2}$

$$= \sqrt{225 + 100}$$

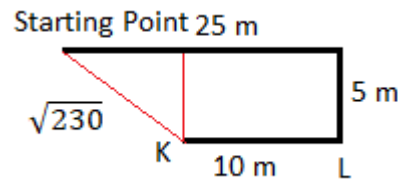
$$= \sqrt{325}$$

$$= 5\sqrt{13} \text{ m}$$

45) Answer: B



46) Answer: C

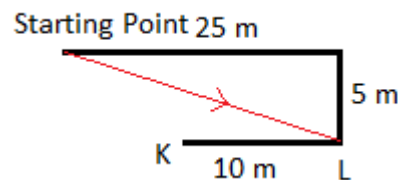


The shortest distance between point K and starting point = $\sqrt{5^2 + 15^2}$

$$= \sqrt{25 + 225}$$

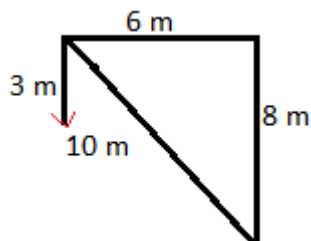
$$= \sqrt{230} \text{ m}$$

47) Answer: D

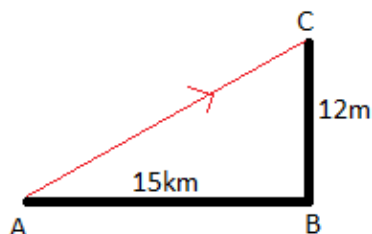


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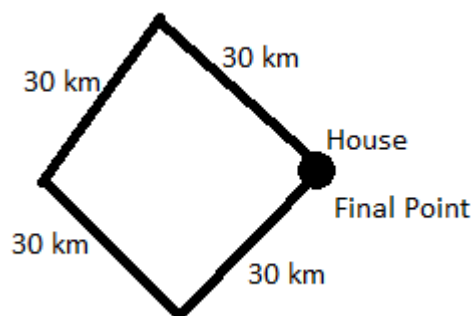
48) Answer: D



49) Answer: A)



50) Answer: A



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