

Quiz Date: 21st August 2020

Q1. X walked from A to B in the East 10 feet. Then she turned to the right and walked 3 feet and reaches to point C. Again, she turned to the right and walked 14 feet and stops at point D. How far is she from A with respect to her final position?

- (a) 4 feet
- (b) 5 feet
- (c) 24 feet
- (d) 27 feet
- (e) None of these

Q2. X left home and cycled 10 km towards South, then 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 kilometers will he have to cycle to reach his home from his final position straight?

- (a) 10 km
- (b) 15 km
- (c) 20 km
- (d) 25 km
- (e) None of these

Directions (3-5): Study the information carefully and answer the questions given below.

A person starts waking from point A and walked 7m towards north direction and after reaching point B he takes a right turn and reached point C after walking 5m. From there he takes a left turn and walked 5m to reach point D and again take a left turn and walked 7m to reach point E.

Q3. What is the shortest distance between point E to B?

- (a) 29m.
- (b) 25m.
- (c) $\sqrt{29}$ m.
- (d) $5\sqrt{2}$ m.
- (e) None of these.

Q4. What is the position of initial point with respect to E?

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

Q5. What is the shortest distance between B and D and in which direction is D with respect to B?

- (a) $\sqrt{25}$ m., North east
- (b) $\sqrt{50}$ m., North
- (c) $5\sqrt{2}$ m., North east
- (d) $2\sqrt{25}$ m., North east
- (e) $\sqrt{50}$ m., East

Direction (6-9): Study the following information to answer the given questions.

A person starts moving from Point A towards east direction to point B. After walking 5km to reach B he turns to the left and walks 5km to reach point C. From there he turns to his left and walks 8 km. After reaching to point D he turns to the south direction and walks 10km and reached to point E. Then he again turns to his left and walks 6km to reach point F. Finally he turns to left and walks 3km and reach to point G.

Q6.What is the shortest distance between A and G?

- (a) 3 km
- (b) 8 km
- (c) 10 km
- (d) 5 km
- (e) None of these

Q7.C is in which direction with respect to E?

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

Q8.If a person further travels 5km from point G to reach H then Point B is in which direction with respect to H?

- (a) North-East
- (b) South
- (c) East
- (d) South-West
- (e) Can't be determined

Q9.How far is C with respect to A?

- (a) $3\sqrt{2}$ km
- (b) $7\sqrt{5}$ km
- (c) $11\sqrt{3}$ km
- (d) $5\sqrt{2}$ km
- (e) None of these

Directions (10-12): Study the following information and answer the given questions

Point Y is 12m to the North of Point X. Point Z is 8m to the East of Point W. Point M is 3m to the South of Point W. Point M is 4m to the West of Point N. Point Z lies exactly between Point X and Point Y.

Q10. In which direction is Point X with respect to Point N?

- (a) North
- (b) Northeast
- (c) South
- (d) Southwest
- (e) None of these

Q11. If Point V lies 6m to the North of Point W then how far is Point V from Point Y?

- (a) 6m
- (b) 8m

- (c) 10m
- (d) 12m
- (e) Cannot be determined

Q12. What is the shortest distance between Point Z and Point N?

- (a) 3m
- (b) 4m
- (c) 5m
- (d) 6m
- (e) None of these

Direction (13-14): Study the following information carefully to answer the given questions below.
Point L is 3m to the west of point K. Point M is 2m north of point K. Point N is 4m east of point M.
Point O is 2m south of point L. Point J is 3m east of point O.

Q13. Which among the following points are in a straight line?

- (a) O, J, K
- (b) M, N, L
- (c) L, K, J
- (d) M, K, J
- (e) L, K, M, N

Q14. In which direction is point N with respect to point O?

- (a) North-east
- (b) South-west
- (c) North-west
- (d) South
- (e) None of these

Direction (15): Study the following information carefully and answer the given questions.

Shyam starts travelling in north direction from point A. After travelling 3km he reached point B. From there he takes a right turn and travel 6km. Then he reached point C and from there he turned towards left and walk 2km and reached point D. From there he turned towards left and after walking 3km, he finally stops at point E.

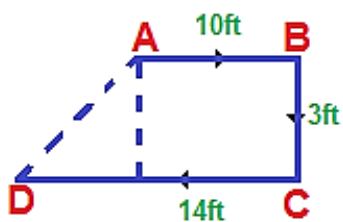
Q15. What is the shortest distance between point E and point A?

- (a) $\sqrt{32}$
- (b) $\sqrt{34}$
- (c) $3\sqrt{2}$
- (d) $2\sqrt{3}$
- (e) None of these



Solutions

S1. Ans.(b)



Required distance = AD

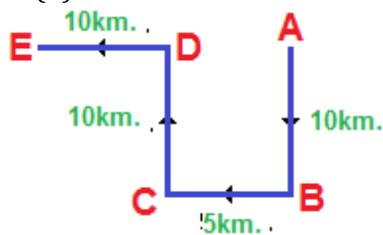
$$= \sqrt{3^2 + (14 - 10)^2}$$

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

$$= 5 \text{ ft}$$

Sol.

S2. Ans.(b)



$$= 5 + 10$$

$$= 15 \text{ km.}$$

Sol.

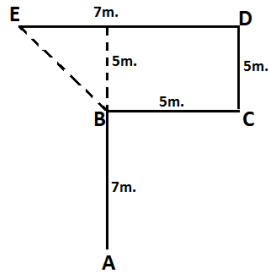
Directions (3-5)

S3. Ans.(c)

$$\text{Sol. } \sqrt{2^2 + 5^2} = \sqrt{4 + 25} = \sqrt{29}$$

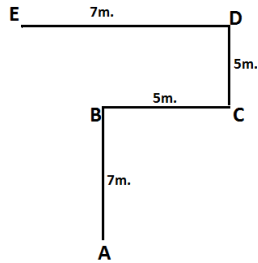
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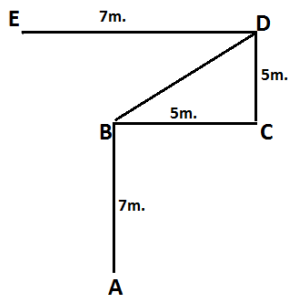
S4. Ans.(e)

Sol. Southeast



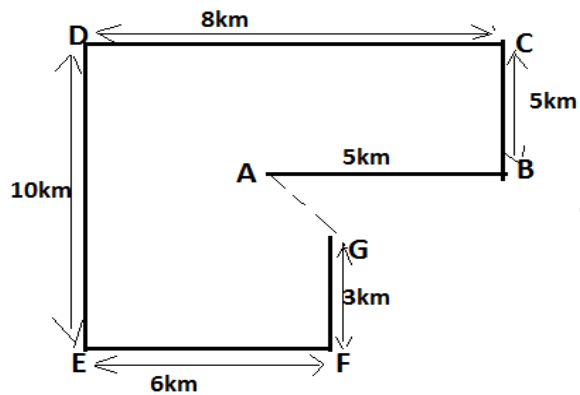
S5. Ans.(c)

Sol. $\sqrt{5^2 + 5^2} = \sqrt{50} = 5\sqrt{2}$. D is in northeast direction w.r.t. B



Direction (6-9):

Sol.



S6. Ans.(e)

S7. Ans.(a)

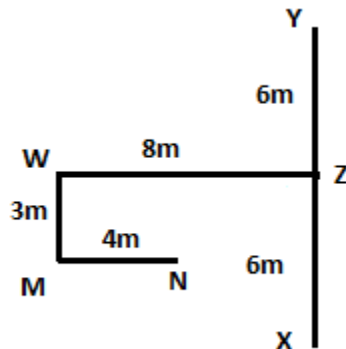
S8. Ans.(e)

S9. Ans.(d)

Directions (10-12):

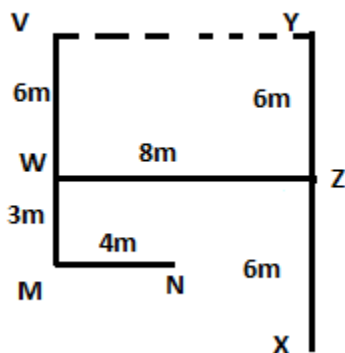
S10. Ans.(e)

Sol. **Southeast**



S11. Ans.(b)

Sol. **8m**

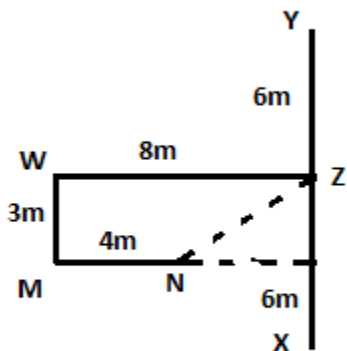


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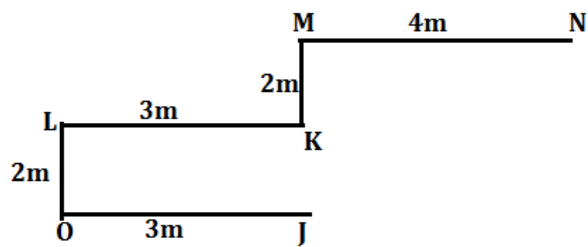
S12. Ans.(c)

Sol. **Distance** = $\sqrt{3^2 + 4^2} = 5\text{m}$



Direction (13-14):

Sol.

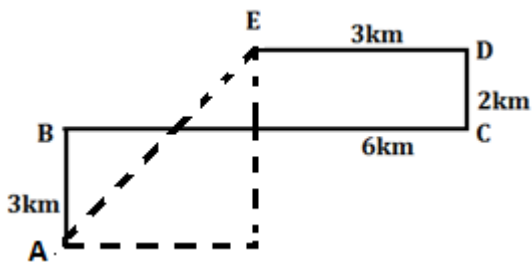


S13. Ans. (d)

S14. Ans. (a)

S15. Ans. (b)

Sol.



$$EA = \sqrt{5^2 + 3^2}$$

$$= \sqrt{34} \text{ km}$$



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