DIRECTION & DISTANCE SENSE TEST BASED VERBAL REASONING PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By Careericons Team

Q1. Hari travelled 17 km to the east, he turned left and went 15 km, he again turned left and went 17 km. How far is he from the starting point ?

a) 2 km

b) 32 km

c) 17 km

d) 15 km

Q2. If point M is 4 km north of point G and point O is south if point G such that point G is mid way between points M and N. Find distance MN + AE.

a) 25 km

b) 19 km

c) 23 km

d) Cannot be determined

e) None of these

Q3. A travelled westward 8km, turned left and travelled 3 km, turned right and travelled 9 km. He then travelled north 3 km. How far is he from the starting point ?

a) 17 km

b) 11 km

c) 15 km

d) 19 km

Q4. Ram walks 2 km to the East, then he turns to South and walks 6 km. He again turns to East and walks 2 km. Then he turns to North and walks 12 km. How far is he from the starting point ?

a) 7.1 km

b) 7.3 km

c) 7 km

d) 7.2 km

Q5. A man leaves for his office from his house. He walks towards East. After moving a distance of 20 m, he turns South and walks 10 m. Then he walks 35m towards the West and further 5m towards the North. He then turns towards East and walks 15 m. What is the straight distance (in metres) between his initial and final position?

a) Cannot be determined

b) 0

c) 5

d) None of these

Q6. Ram cycled 10 km southward from his home, turned right and cycled 6 km, turned right, cycled 10 km, turned left and cycled 15 km. How many km will he have cycled to reach straight home ?

a) 20 km

b) 21 km

c) 16 km

d) 10 km

Q7. Two Person P and Q are separated by a distance of 20 meter in west –east direction respectively. Now P and Q start walking in north and south direction respectively and walked for 5 meter. Now P and Q took a right turn and walked 10m each. Now P and Q took left turn and after walking 5 meter both of them stopped. Find the distance between them

a) 25

b) 30

c) 15

d) 35

e) None of these

Q8. Manish walked 6km facing towards East, then he took a right turn and walked a distance of 9km. he then took a left turn and walked a distance of 6km. How far is he from the starting point?

a) 21km

b) 18km

c) 15 km

d) 15km

e) None of these

Q9. Maya starts at point T, walks straight towards North to point U which is 4 ft away. She turns left at 90⁰ and walks 1 ft to Q, turns left at 90⁰ and goes to V, who is 1 ft away and once again turns 907deg; right and goes to R, 3 ft away. What is the distance between T and R?

a) 5 ft

b) 8 ft

c) 4 ft

d) 7 ft

Q10. Riya started from her home to office. She started in east direction. After walking for 4 m she turned to her left and walked 8 m, now she turned left and walked 2 m. After this she turned to right walked 4 m. Now after turning to her right she walked 13 m and reached office. Find the shortest distance between her office and home.

a) $9?41 m$

b) 26 m

c) 87 m

d) $3?41 m$

e) None of these

Q11. Deepak walks 20 metres towards North. He then turns left and walks 40 metres. He again turns left and walks 20 metres. Further he moves 20 metres after turning to the right. How far is he from his original position ?

a) 60 mts.

b) 30 mts

c) 20 mts.

d) 50 mts.

Q12. A man starts from a point and moves 3 km North, then turns to West and goes 2 km. He turns North and walks 1 km and then moves 5 km towards East. How far is he from the starting point?

a) 10 km.

b) 5 km

c) 11 km.

d) 8 km.

Q13. X goes 15 metres North, then turns right and walks 20 metres, then again turns right and walks 10 metres then again turns right and walks 20 metres. How many metres is he from his original position ?

a) 10 m

b) 20 m

c) 5 m

d) 15 m

Q14. Two men start walking from one point towards opposite direction. After walking 3 km straight the both turn right wards and walk straight for the distance of 4km. How far are they both from each-other?

a) 7 km

b) 10 km

c) 8 km

d) 9 km

Q15. A house faces North. A man coming out of his house walked straight for 10 metres, turned left and walked 25 metres. He then turned right and walked 5 metres and again turned right and walked 25 metres. How far is he from his house?

a) 55 metres

b) 65 metres

c) 15 metres

d) 60 metres

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Answers to the above questions :

Q1. Answer: (d)

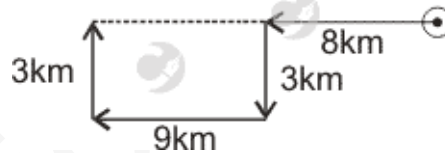Final point • ←— 17 km —•
15km ⋮   15km ↑
Starting point ⊙ —→ 17 km —•
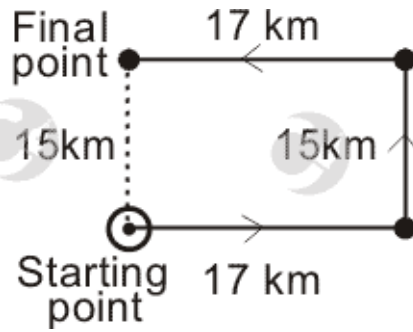
Q2. Answer: (c)

MN = 4+4 = 8 km

AE = $\sqrt{(AD^2 + DE^2)}$

= $\sqrt{(12^2 + 9^2)}$ = 15 km

so required ans = 8 + 15 = 23 km

Q3. Answer: (a)

3km   8km
     3km
9km

Required distance

= 8 km + 9 km

= 17km

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Q4. Answer: (d)
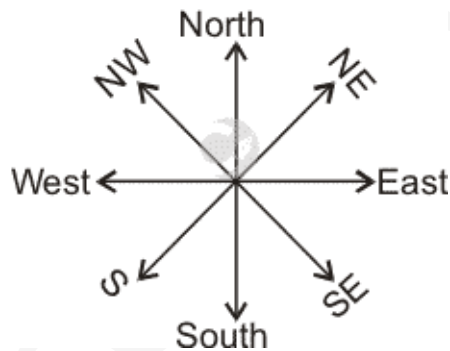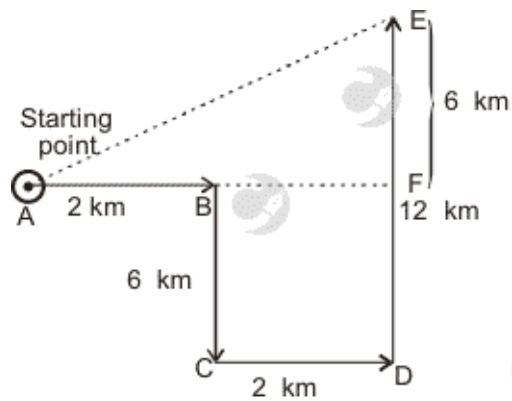
Required distance

AE = $\sqrt{AF^2 + FE^2}$

= $\sqrt{4^2 + 6^2}$

= $\sqrt{16+ 36}$

= $\sqrt{52}$

= 7.2 km

Q5. Answer: (c)
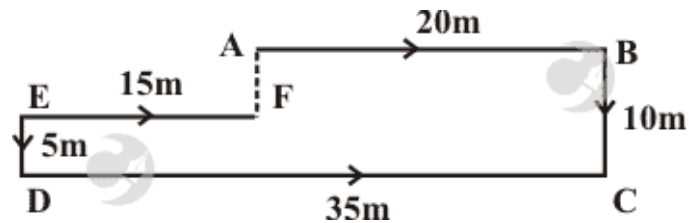
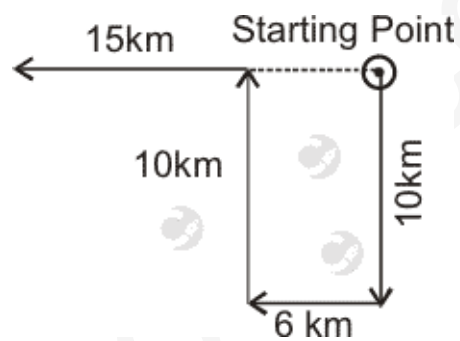The movements of the man from A to F are as shown in Figure

Clearly, DC = AB + EF

F is in line with A

Also, AF = (BC – DE) = 5m.

So, the man is 5 metres away from his initial position.

Q6. Answer: (b)

Required distance

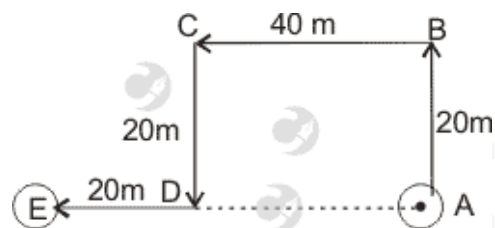= (15 + 6) km

= 21 km

Q7. Answer: (e)

Q8. Answer: (c)

Q9. Answer: (a)

The movements of Maya from T to R are as shown in figure.

RT = $\sqrt{(RV')^2 +(TV')^2}$ = $\sqrt{16 + 9}$ = 5ft
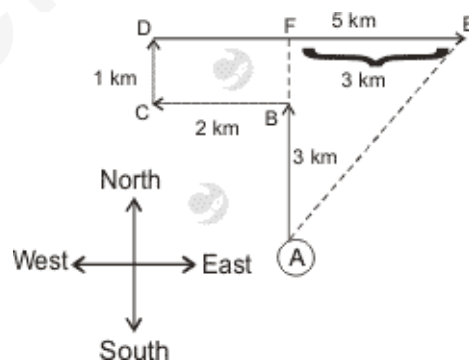
Q10. Answer: (d)

Q11. Answer: (a)

Required distance = AE = AD + DE

= (40 + 20) metres

= 60 metres

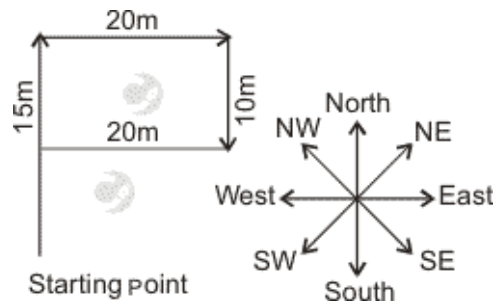## Q12. Answer: (b)

Required distance

AE = $\sqrt{AF^2 + EF^2}$

= $\sqrt{4^2 + 3^2}$

= $\sqrt{16 + 9}$

= $\sqrt{25}$

= 5 km

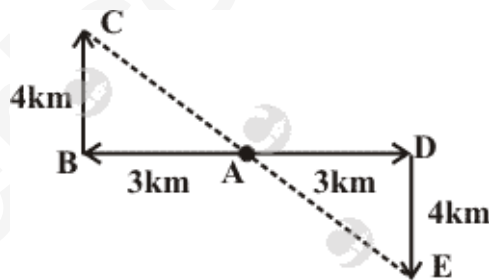## Q13. Answer: (c)

Required distance

= 15 − 10 = 5m

Q14. Answer: (b)

In ∆ ABC, AC = $\sqrt{(AB)^2 + (BC)^2}$
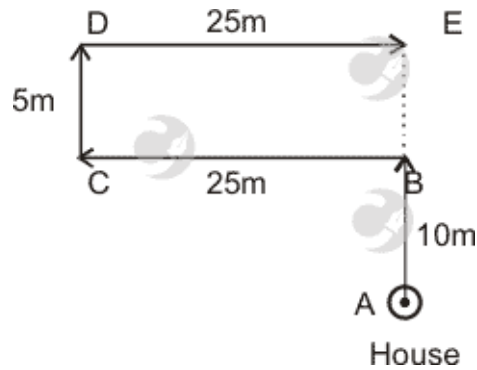
= $\sqrt{(3)^2 + (4)^2}$ = $\sqrt{9 + 16}$ = $\sqrt{25}$ = 5 km

In ∆ ADE, AE = $\sqrt{(AD)^2 + (DE)^2}$

= $\sqrt{(3)^2 + (4)^2}$ = $\sqrt{9 + 16}$ = $\sqrt{25}$ = 5 km

Hence, CE = 5 + 5 = 10 km

Q15. Answer: (c)

Required distance

= AE = AB + BE

= (10 + 5) metres

= 15 metres

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