

Directions (1-3): Read the following information carefully to answer the given questions:

Karan wanted to visit a city temple, so he started from point A towards north and reached B after walking 10 meters. He further continue in this direction 3m and reached at point C.

From C he turned 135 degrees towards his right and walked 5 meters to reach D. From D he turned towards east and after walking 5 meters, he reached a point E. From E he turned 90 degrees towards his right and found himself walking in the direction opposite to which he started his journey. After walking 5 meters from E, he reached the temple.

Q1. What is the shortest distance between Karan's final position and point A?

- (a) $\sqrt{185}$ meters
- (b) 5000 cm
- (c) 5 meters
- (d) 50000 millimeters
- (e) None of these

Q2. In which direction is point A with respect to the karan's final position?

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

Q3. What is the total distance travelled by karan?

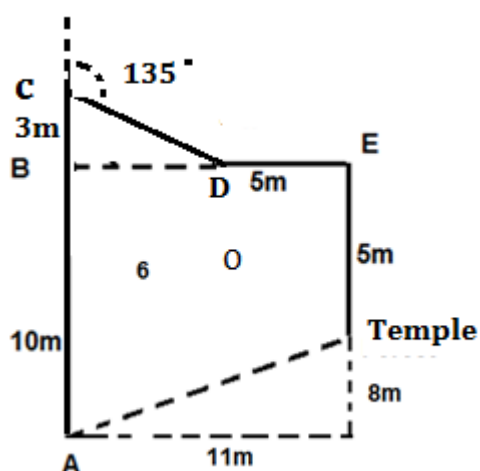
- (a) 21
- (b) 20
- (c) More than 29 meters
- (d) 22.435 meters
- (e) 23 meters

S1. Ans.(a)

S2. Ans.(c)

S3. Ans.(c)

Sol.



Directions (4-6): Read the following information carefully to answer the given questions:

Two friends Jay and Veeru started walking from two different points. Jay, who started from point A moved along a circular track and after walking 22km he reached point B, from where he turned left and walked 5 km to reach point C after which he stopped. Veeru started from point F and after walking 5km, he reached point E. From point E he turned 45 degree towards his left and walked $\sqrt{8}$ km to reach point D. After reaching point D, he turned 45 degrees in clockwise direction. He then moved ahead 5km to reach point C which is towards the west of point D. Point A, B, C and D are in straight line.

Q4. In which direction was Jay facing at instant he travelled three-fourth of his total journey?

- (a) East
- (b) West
- (c) North East
- (d) South East
- (e) Cannot be determined

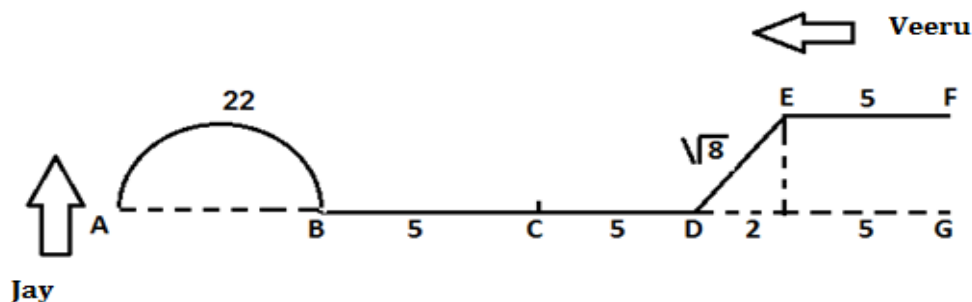
Q5. If Jay keeps on walking ahead from point C and reached point G after walking 12 km, then what is the shortest distance between point F and G?

- (a) 7km
- (b) 4km
- (c) 2km
- (d) More than 7km
- (e) None of these

Q6. What is the distance between A and B?

- (a) 22km
- (b) 14km
- (c) 7km
- (d) Cannot be determined
- (e) None of these

Directions(4-6):



S4. Ans.(d)

S5. Ans.(c)

S6. Ans.(b)

Directions (7-10): Study the following information and answer the questions given below:

There is M-N axis in such a way that M is in west direction and N is in east direction. There is R-S axis in such a way that R is in south direction and S is in north direction. M-N axis and R-S axis intersect at a point Z in such a way that SZ is 11m, ZR is 9m, ZN is 13m, ZM is 17m.

While facing towards south direction on point S, Kumar takes his left and walks 10m and then he takes his right and walks 7m and reached to point A.

While facing towards south direction on point R, Shubha takes her right and walks 10m and then she again takes her right and walks 10m and reached to point B.

Q7. Point Z is in which direction with respect to Shubha's current position?

- (a) south
- (b) south-east
- (c) south-west
- (d) west
- (e) north-west

Q8. Kumar's current position is in which direction with respect to point R?

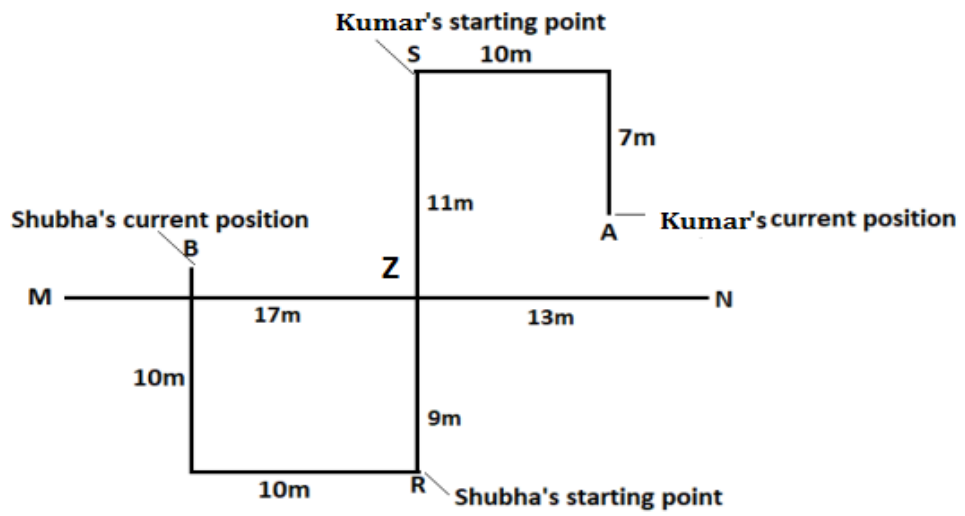
- (a) north
- (b) south- east
- (c) north-east
- (d) north-west
- (e) south-west

Q9. What is shortest distance between point A and N?

- (a) 3m
- (b) 4m
- (c) 5m
- (d) 2m
- (e) 6m

Q10. Kumar's current position is in which direction with respect to Shubha's current positions?

- (a) north
- (b) south- east
- (c) north-west
- (d) north-east
- (e) south-west



Solution(7-10):

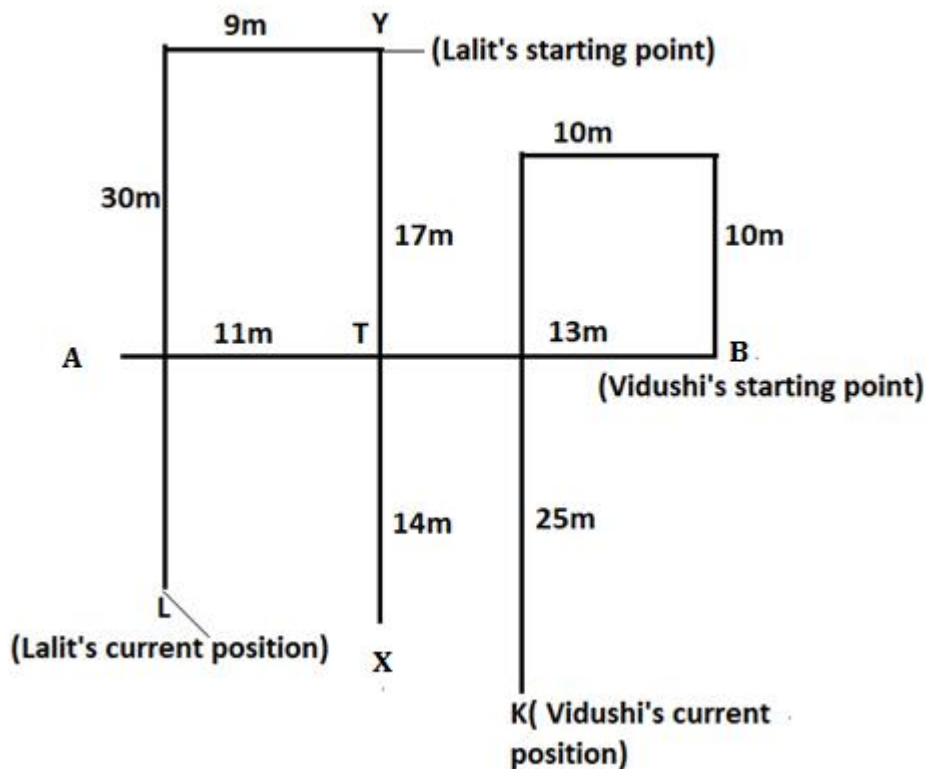
S7. b

S8. c

S9.c

S10.d

Directions (11-13): Study the following information and answer the questions given below:
 There is Y-X axis in such a way that Y is in north direction and X is in south direction. There is A-B axis in such a way that A is in west direction and B is in east direction. Y-X axis and A-B axis intersect at a point T in such a way that AT is 11m, TB is 13m, YT is 17m, TX is 14m.
 While facing towards north direction on point Y, Lalit takes a left turn and walks 9m and then he takes a left turn again and walks 30m and reached to point L.
 While facing towards north direction on point B, Vidushi walks 10m and then she takes left turn and walks 10m and then she takes again take a left turn and walks 25m and reached to point K.



Q11. Lalit's current position is in which direction with respect to point X?

- (a) south
- (b) south-east
- (c) south-west
- (d) west
- (e) north-west

Q12. Vidushi's current position is in which direction with respect to Point Y?

- (a) north
- (b) south-east
- (c) north-east
- (d) north-west

(e) south-west

Q13. Point K is in which direction with respect to point L?

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

Solution(11-13):

S11.Ans.(e)

Sol.

S12.Ans.(b)

Sol.

S13.Ans.(b)

Sol.

Directions (14-15): Study the information given below carefully and answer the questions that follow:

Srinidhi started her journey from point 'A' and walked 10 km towards east direction and reached to 'B' and then she turned to her left and walked 3 km to reach point 'C' and then she turned to her left again and walked 12 km to reach 'D'. Again she turned to her left and walked 3 km to reach 'E'.

Q14. if Srinidhi has to walk towards point B from point E, then which of the following point she cross first?

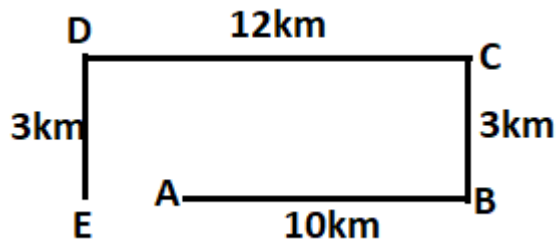
- (a) A
- (b) D
- (c) C
- (d) None
- (e) None of these

Q15.What is the distance between E and A?

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

- (d) 5km
- (e) None of these

Solution(14-15):



S14.Ans.(a)

Sol.

S15.Ans.(c)

Sol.

Directions (16-17): Study the following information and answer the questions given below:

Two friends Ankur and Ajeet start walking in opposite direction. Ankur walks two 2km and takes a right turn and walks for 3km. He again takes a right turn and walks for 1km. Ajeet walks for 3km and then takes a left turn and walks 1km. he again takes a right turn and walks for 2km and finally takes a right turn and walk for 1km. Ajeet finally faces in the north direction.

Q16. What is the distance between Ajeet's final position and initial position?

- (a) 5km
- (b) 6km
- (c) 7km
- (d) 4km
- (e) None of these

Q17. In which direction Ankur initially stat walking?

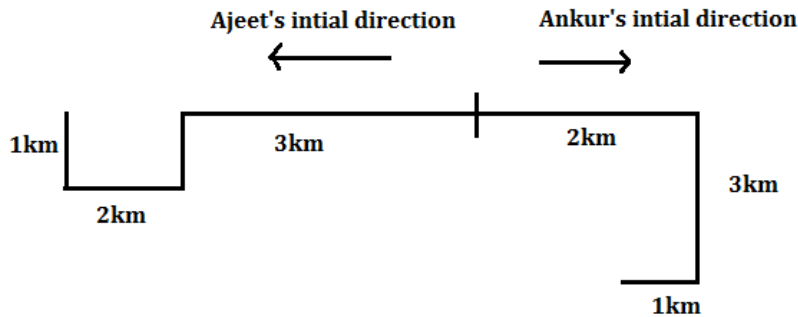
- (a) North
- (b) South
- (c) North-south
- (d) East
- (e) West

Directions (16-17):

S16.Ans(a)

S17.Ans(d)

Sol.



Directions (18-20): Study the following information and answer the questions given below:

There is AB axis in such a way that A is in west and B is in east direction. There is WX axis in such a way that W is in North direction and X is in South direction. AB axis and WX axis intersect at a point Q in such a way that AQ is 12m, QB is 15m, QX is 14m, QW is 13 m. A person start walking from point M in the east direction and after walking 8m he reaches to point N. From point N he takes a right turn and walk for 2m to reach at point P. Point M is 6m north of point Q. Another person start walking from point L in the east direction and after walking 8m he reaches at point J. From point J he takes a left turn and walk for 2m to reach at point K. A third person walk in north direction from point A and after walking 2m he reaches to point G. From point G he takes a left turn and walks for 6m to reach point H. Point L is 7m south of point Q.

Q18. Point H is in which direction with respect to point Q?

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

Q19. What is the distance between point X and point L?

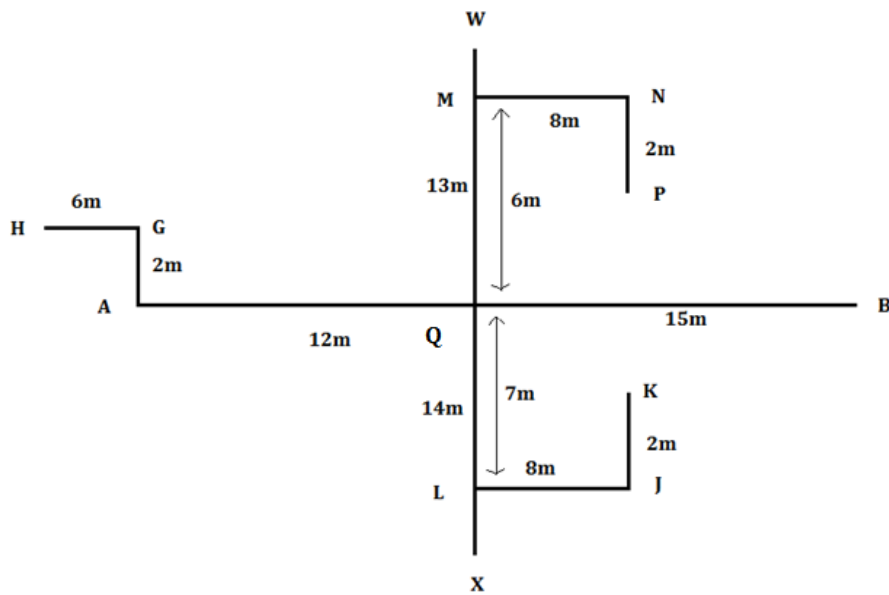
- (a) 14m
- (b) 7m
- (c) 12m
- (d) 11m
- (e) None of these

Q20. Point P is in which direction with respect to point K?

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

Directions (18-20):

Sol.



S18.Ans(c)

S19.Ans(b)

S20.Ans(a)

Directions (21-25): Read the following information carefully to answer the questions that follow. The questions are based on following coding formats:

P#Q – Q is in the south direction of P at distance of 4m.

P%Q- Q is in the north direction of P at distance of 3m.

P@Q – Q is in the east direction of P at distance of 6m.

P*Q – Q is in the west direction of P at distance of 5m.

P#*Q – Q is in the southwest direction of P.

P%@Q – Q is in the northeast direction of P

Q21. $D@B^*A\#^*C\%D\%E$, A is in line with B then find out the shortest distance between E and A?

- (a) 4m
- (b) $3\sqrt{5}$ meters
- (c) 13m
- (d) $\sqrt{10}$ meters
- (e) None of these

Q22. $D@B^*A\#^*C\%D\%E$, A is in line with B then find out the shortest distance between B and E?

- (a) 45m
- (b) $3\sqrt{5}$ meters
- (c) 13m
- (d) can't determined
- (e) None of these

Q23. $A@D\%E\#^*A\#C$, then find out C is in which direction of E?

- (a) north
- (b) south
- (c) south-west
- (d) south-east
- (e) None of these

Q24. A@D%E##*A#C, then find out the shortest distance between C and E?

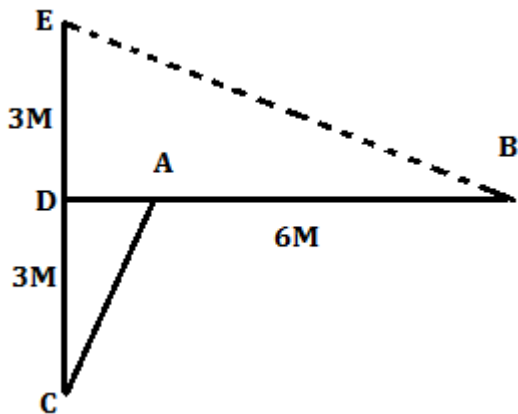
- (a) $\sqrt{85}$ meters
- (b) $\sqrt{84}$ meters
- (c) 9m
- (d) can't be determined
- (e) None of these

Q25. F#A@D%E##*A#C%@B is true, and B is in line with A and D in such that $AB=AD/2$, then find out the shortest distance between B and C?

- (a) 9m
- (b) 4m
- (c) 5m
- (d) 6m
- (e) None of these

Ans21. D

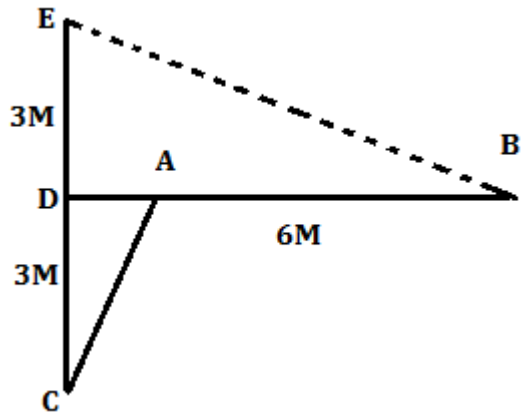
Sol.



Sol.

Ans22. B

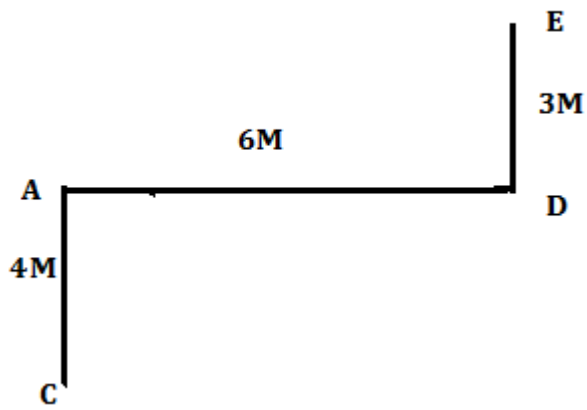
Sol.



Sol.

Ans23. c

Sol.

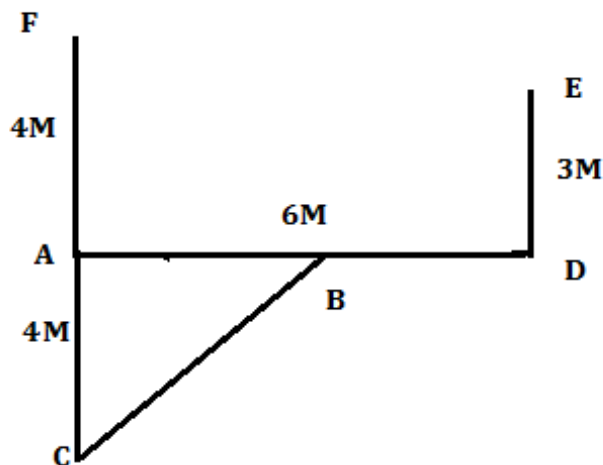


Ans24. a

Sol.



Ans25.c



Direction (26-30): In the following questions, the symbols #, &, @ and \$ are used with the following meanings as illustrated below. Study the following information and answer the given questions:

Note: The directions which are given indicates exact directions.

P#Q - Q is in the south direction of P.

P@Q - Q is in the north direction of P

P&Q - Q is in the east direction of P at distance of either 12m or 6m

P\$Q - Q is in the west direction of P at distance of either 15m or 3m.

P#&Q - Q or P is in the southeast direction of P or Q.

P@&Q - P or Q is in the northeast direction of Q or P.

(Memory based asked in IBPS PO Mains 2017)

Q26. If A&B#&C\$D&E@F are related to each other such that F is placed exactly between A and B on line AB. Similarly D and A are vertically inline then what is the possible shortest distance between F and B when DE (length of segment DE) < DC/2 and EC < 10m?

- (a) 12m
- (b) 5 m
- (c) 4 m
- (d) 6m
- (e) None of these

Q27. If A&B#&C\$D&E@F are related to each other such that D@&B then what is the probable direction of A with respect to F?

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

Q28. K, M, S, K, Z are related to each other such that K is in north of M then what is the probable direction of Z with respect to M?

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

Q29. K, M, S, K, Z are related to each other such that K is in north of M . M and K are inline vertically when $MT > SK$ then what is the distance between S and Z When $KZ = 12$ m?

- (a) 24m
- (b) 18m
- (c) 15m
- (d) Either (a) or (b)
- (e) None of these

Q30. K, M, S, K, Z are related to each other such that K is in north of M . M and K are inline vertically when $MT > SK$ then what is the sum of SK and MT?

- (a) 27m
- (b) 21m
- (c) 15m
- (d) Either (a) or (b)
- (e) Either (b) or (c)

Directions (26-30):

S26. Ans. (d)

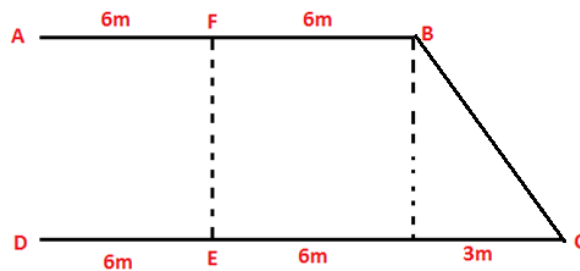
Sol. It is given that $DE < DC/2$ so the value of $DC = 15$ m and $AB = 12$ m or 6m

D and A are vertically inline so $DE = AF$,

$DE = 6$ m, $EC = 15 - 6 = 9$ m

It is given that $EC < 10$ so $DE = 6$ m and $AB = 12$ m

Hence $FB = 6$ m



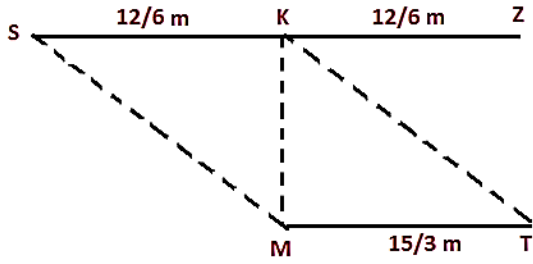
S27. Ans. (e)

Sol. The direction of A with respect to F can't be determined.

S28. Ans. (a)

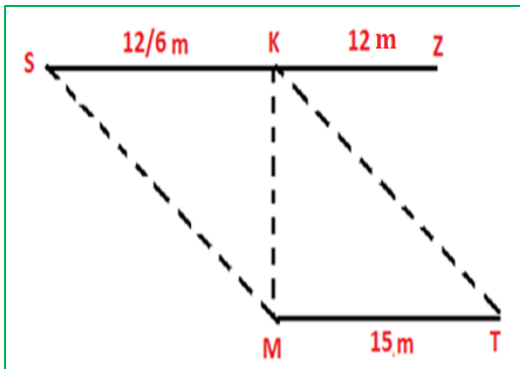
Sol. There are four possible possibilities but two will cancel out by the condition that K is in east of S and K is in north of M so the final figure is given below.

It is clear that Z is in north east from M.



S29. Ans.(d)

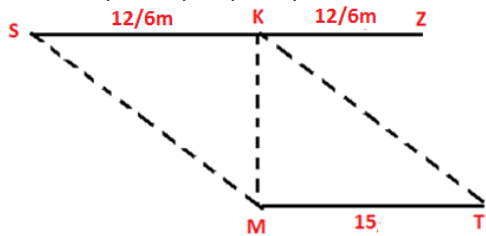
Sol. It is given that $MT > SK$ so $MT = 15m$ $KZ = 12m$ and $SK = 12m$ or $6m$ so the value of $SZ = (12+12)$ or $(12+6) = 24m$ or $18m$



S30. Ans. (d)

Sol. It is given that $MT > SK$ so $MT = 15m$ and $SK = 12m$ or $6m$

$SK + MT = (12+15)$ or $(15+6) = 27m$ or $21m$



Radhey Ki Reasoning ----- All The Best