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## Important Coded Direction Sense Questions for Bank Clerk Mains

**Direction 1-5: Read the following information carefully and answer the given questions.**

A $ B means A is to the north of B at a distance of either 4m or 9m

A & B means A is to the west direction of B at a distance of either 3m or 12m

A % B means A is to the south direction of B at a distance of either 4m or 9m

A # B means A is to the east direction of B at a distance of either 3m or 12m

A $# B means A is to the north-east of B

A %# B means A is to the south-east direction of B

**Statement**

**B$A, C&B, D%C, D$&A, D&H&G, B$H, A&F, (CB>AF)**

**1) In which direction is C with respect to F?**
a. North
b. East
c. North-East
d. North-West
e. None of these

**2) What is the distance between D and G?**
a. 10 m
b. 28 m

c. 9m
d. 15 m
e. 14 m

**3) What is the total distance between F and G?**
a. 5m
b. 15m
c. 4m
d. 12m
e. None of these

**4) In which direction is B with respect to D?**
a. North
b. East
c. North-East
d. North-West
e. None of these

**5) If C & J, then what is the total distance between J and D. (It is given that AF=CJ)**
a. 5m
b. 15m
c. 4m
d. 12m
e. None of these

**Directions 6-10: Study the information below and answer the given questions.**

A%254m B – A is 250m east of B.

A&116mB – A is 126m west of B.

A?96mB – A is 90m south of B.

A@220mB – A is 225m north of B.

**Point M is & -4m point N, which is @3m point O, which is %16m point P, which is ?14m point Q, which is %10m point R, which is ?12m point S, which is &-4m point T.**

**6) What is the shortest distance between point R and point T (approx)?**

a. Less than 15m

b. Between 15m and 17m

c. Between 17m and 19m

d. More than 19m

e. None of these

**7) What is the shortest distance between point M and point P?**

a. 7m

b. 8m

c. 10m

d. 12m

e. None of these

**8) In which direction is point S with respect to point O?**

a. North

b. North-East

c. South-East

d. North-West

e. None of these

**9) What is the distance between point R and point N?**

a. 7m

b. 8m

c. 18m

d. 12m

e. None of these

**10) In which direction is point P with respect to point N?**

a. North

b. North-East

c. South-West

d. North-West

e. None of these

**Directions 11-15: Study the information below and answer the questions.**

M & N (89m) – M is 76m south of N.

M % N (52m) – M is 39m east of N.

M @ N (110m) – M is 97m north of N.

M # N (58m) – M is 45m west of N.

**X @ P (25m), W # V (18m), R % S (18m), Q % P (22m), T # U (19m), Q & S (20m), W & U (28m), T @ R (25m)**

**11) If Z % X (33m) then what is sum of the shortest distance between S and T and the shortest distance between Z and U?**

a. 20m

b. 25m

c. 29m

d. 32m

e. None of these

**12) If R # K (19m), which among the following statements is true?**

a. X # A (33m), K @ A (4m)

b. B @ V (16m), K # B (18m)

c. D & X (18m), K % D (20m)

d. F % Q (24m), F & K (19m)

e. None is true.

**13) If P # Q (25m), S & T (19m), Q @ R (31m) and S % R (17m) then what is the shortest distance between P and T?**
a. 24m
b. 18m
c. 20m
d. 22m
e. None of these

**14) What is the direction of S with respect to P?**
a. North
b. North-East
c. South-West
d. North-West
e. None of these

**15) What is the total distance between S and T?**
a. 14m
b. 18m
c. 13m
d. 22m
e. None of these

**16-20) In certain coding language, the directions are coded as per below conditions.**
A@B means – A is North of B
A%B means – A is South of B
A#B means – A is East of B
A $ B means – A is West of B
@ and $ means the distance between the two points is either 4m or 8m.
% and # means the distance between the two points is either 3m or 7m.
AB > CD Means the distance between point A and B is greater than that of point C and D.

Example: A @ B means A is north of B and the distance between A and B is either 4m or 8m and so on.
Condition:
**T#Q, U%Q, R@V, S#V, R $ U, S@W, P#W, TQ > WP, VS > RU**

**16) If N#M, N@O $ K, RV > NO and the point M is exactly to the east of U and also to the South of T. Then what is the shortest distance between Point S and Point O?**
a. √65
b. √137
c. Cannot be determined
d. Either (A) or (B)
e. √70

**17) In which direction T with respect to V?**
a. North
b. North-East
c. South-West
d. North-West
e. None of these

**18) If R%B, RB<QT and RB= QU, than what is the total distance between QT and QU?**
a. 14m
b. 10m
c. 6m
d. either a or b
e. None of these

**19) If SW> WP, than what is the total distance between RU and SW?**
a. 8m
b. 12m
c. 16 m
d. 11m

e. None of these

**20) In which direction R with respect to P?**
a. North
b. North-East
c. South-West
d. North-West
e. None of these

**21-25) Direction 1-5: Read the following information carefully and answer the given questions.**

A * B means A is to the left of B at a distance of 5m.

A # B means A is to the south direction of B at a distance of 3m.

A @ B means A is to the right of B at a distance of 2m.

A % B means A is to the north direction of B at a distance of 4m.

In each of the following questions initially, all persons are facing north.

**21) Q @ Y % R # L @ K, then in which direction is K with respect to R?**
a. North
b. East
c. Right
d. North-West
e. None of these

**22) Z % Y, F * Z, Y % G, D * F then find the minimum distance between G and D (approx)?**
a. 12 m
b. 13 m
c. 6 m
d. 4 m
e. 10 m

**23) B @ T * F % G * R, then T is in which direction with respect to R?**
a. South
b. North-West
c. West
d. North-East
e. East

**24) A # F * P @ D # G then find the distance between A and D?**
a. 2 m
b. 3 m
c. 3√2 m
d. 4 m
e. None of these

**25) B @ T * F % G * R, then what is the distance between B and G?**
a. 3m
b. 4m
c. 5m
d. 2m
e. None of these

**Direction 26-30: Read the following information carefully and answer the given questions.**

A @ B means A is to the north of B at a distance of either 7m or 12m

A # B means A is to the west direction of B at a distance of either 5m or 14m

A $ B means A is to the south direction of B at a distance of either 7m or 12m

A & B means A is to the east direction of B at a distance of either 5m or 14m

A @& B means A is to the north-east of B

A $& B means A is to the south-east direction of B

**Statement: A@B, B#C, C$D@&A, D#E@F@&C, F@G$$C, G&H$C**

**26) In which direction is B with respect to G?**
a. North
b. East
c. North-East
d. North-West
e. None of these

**27) If distance between B and C is same as the distance between D and E and this distance is less than the distance between A and B then what is the total distance between BC and DE?**
a. 10 m
b. 28 m
c. Either a or b
d. 5 m
e. 14 m

**28) What is the total distance between E and G?**
a. 12 m
b. 17 m
c. 19 m
d. 21 m
e. None of these

**29) In which direction is G with respect to D?**
a. North
b. East
c. North-East
d. North-West
e. South east

**30) What is the total distance between D and H?**
a. 12 m

b. 17 m
c. 19 m
d. 21 m
e. None of these

**31-35) Directions: Study the information below and answer the questions.**
Y # Z (129m) – Y is 137m west of Z.
Y & Z (111m) – Y is 123m north of Z.
Y $ Z (106m) – Y is 99m east of Z.
Y @ Z (97m) – Y is 87m south of Z.

**A & P (11m), P # C (9m), C @ B (56m), T $ E (33m), D @ R (33m), B # Q (22m), S $ R (27m), E & S (21m), B @ T (20m)**

**31) If K @ B (33m), which among the following statement is true?**
a. S # K (26m)
b. K $ A (24m)
c. K @ C (33m)
d. K @ S (42m)
e. None is true.

**32) What is the shortest distance between point P and point D?**
a. 23m
b. Between 24m and 29m
c. 29m
d. More than 29m
e. None of these

**33) In which direction R with respect to Q?**
a. North
b. East
c. North-East
d. North-West
e. South West

**34) If M&R (21), than distance between M and R is equal to distance between?**
a. R and D
b. E and S
c. A and P
d. B and C
e. None of these

**35) In which direction B with respect to P?**
a. North
b. East
c. North-East
d. North-West
e. South West

**Directions 36-40: Study the information below and answer the following questions:**

P @6m Q – P is 3m east of Q.
P *8mQ – P is 5m west of Q.
P &7mQ – P is 4m south of Q.
P$10mQ – P is 7m north of Q.

**R is & 6m of Q. S is $7m of T. V is $10m of U. U is *6m of T. S is *7m of R. V is *6m of W. Q is @5m of P.**

**36) What is the shortest distance between W and T?**
a. 5m
b. 6m
c. 8m
d. 7m
e. None of these

**37) What is the total distance between V and Q?**
a. 5m
b. 6m

c. 7m
d. 8m
e. 4m

**38) In which direction is Q with respect to U?**
a. North
b. East
c. North-East
d. North-West
e. South West

**39) If R$7Mm, than what is the area of square STMR?**
a. 36m
b. 9m
c. 4m
d. 16m
e. None of these

**40) In which direction is V with respect to T?**
a. North
b. East
c. North-East
d. North-West
e. South West

**41-45) Study the information below and answer the following questions**

P#Q - P is in the south direction of Q.
P@Q - P is in the north direction of Q.
P&Q - P is in the east direction of Q.
P$Q - P is in the west direction of Q.
P£QS- P is the mid-point of QS vertically.

**G is #5m of B. T is &20m of G. Point T is @14m of V. C is $20m of V. Q is @7m of C. F is &10m Q. U£GT.**

**41) If Point K is #7m of point T then which of the following is the position of K with respect to F?**
a. @, 24m
b. &, 10 m
c. #, 15 m
d. $, 10m
e. None of these

**42) Point B is in which direction from point V?**
a. #
b. @$
c. #$
d. @&
e. #&

**43) Point C is in which direction from point G?**
a. #
b. @
c. $
d. &
e. #&

**44) What is the distance between point G and point Q?**
a. 6m
b. 5m
c. 8m
d. 7m
e. 10m

**45) What is the distance between point B and point U?**
a. 5m
b. 5√5m
c. 3√5m
d. 7m
e. None of these

**46-50) Study the information below and answer the following questions**
P % Q – P is north of Q.
P # Q – P is south of Q.
P @ Q – P is east of Q.
P$ Q – P is west of Q.
P * QR – P is midpoint of vertical straight line QR.
P€ QR – P is midpoint of horizontal straight line QR.
**A is 6m%B. C*AB. D is5m@C. E is9m#D. F is6m@E.G is4m%F. H€GI.J is4m#H. G is12m$I.**

**46) A car moves from B to C, then C to D and then D to J, what is the total distance covered by the car?**
a. 19m
b. 23m
c. 20m
d. 28m
e. None of these

**47) If there is a landmark X at 4m south to J, then if a bike moves from F to G, then G to X, then X to I, what is the total distance covered by the bike?**
a. 24m
b. 29m
c. 32m
d. 30m
e. None of the above

**48) If Vivek moves 17m towards west from H, then how far he is from A?**
a. 10m
b. 7m
c. 8m
d. 5m
e. None of these

**49) In which direction is D with respect to J?**
a. North
b. East
c. North-East
d. North-West
e. South West

**50) If Rahul moves from point G to point F and then to point E, what is total distance covered by Rahul?**
a. 4m
b. 8m
c. 10m
d. 12m
e. None of these

# Answer Key with Detailed Solution

**Solution 1-5**
B$A, C&B, D%C, D$&A, D&H&G, B$H, A&F, (CB>AF)
**1. d. North-West**
**2. d. 15 m**
**3. a. 5m**
**4. c. North-East**
**5. a. 5m**
1) B$A means B is either 4 or 9m north of A.
2) C&B means C is either 3 or 12m west of B.
3) D%C means D is either 4 or 9m south of C.
But it is also given that D$&A that means D is north-west of A.
If we apply the above condition than distance between D and C must be 4m and Distance between B and A must be 9m.
4) B$H means B is either 4 or 9m north of H but as only point A is 9m south of B. Both point H and A can't be at same point.
So Point H is 4m south of B or between B and A.
5) A&F means A is either 3 or 12m west of F.

6) CB>AF means distance between CB is greater than AF so CB= 12m and AF=3m
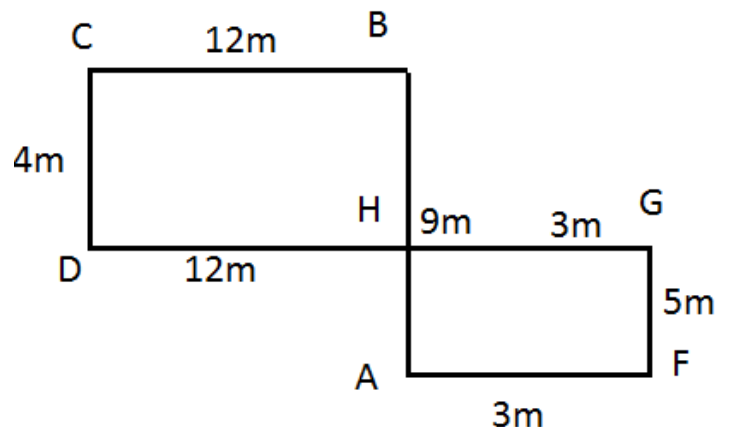


**Solution 5**
AF=CJ means CJ =3m also we know CD=4m
Hence from Pythagoras theorem
JD=5m
**Solution 6-10**

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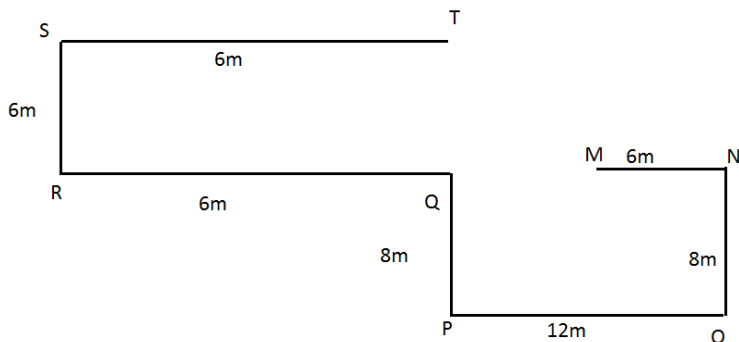
**6. a. Less than 15m**
**7. c. 10m**
**8. d. North-West**
**9. c. 18m**
**10. c. South-West**

**Solution 11**
M & N (89m) – M is 76m south of N, here (89 – 76) = 13m
M % N (52m) – M is 39m east of N, here (52 – 39) = 13m
M @ N (110m) – M is 97m north of N, here (110 – 97) = 13m.
M # N (58m) – M is 45m west of N, here (58 – 45) = 13m.
The actual distance between M and N is 13m less than the distance given in the code.
As given in the code,
X @ P (25m), W # V (18m), R % S (18m), Q % P (22m), T # U (19m), Q & S (20m), W & U (28m), T @ R (25m)
As Z % X (33m), so Z is 20m east of X, thus, the shortest distance between U and Z is 7m.
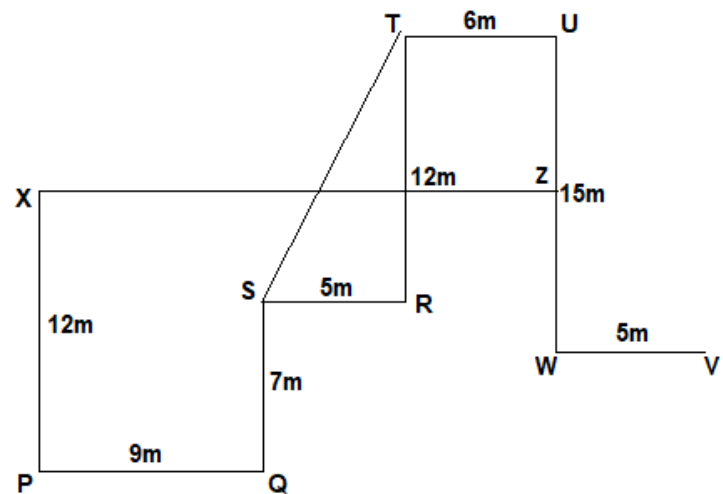
The shortest distance between S and T
= $\sqrt{(12^2) + (5^2)}$ m
= 13m.
Sum = (13 + 7) = 20m
Hence, option a is correct

**Solution 12**
As given in the code,
X @ P (25m), W # V (18m), R % S (18m), Q % P (22m), T # U (19m), Q & S (20m), W & U (28m), T @ R (25m)
The direction diagram for the above code is given below:
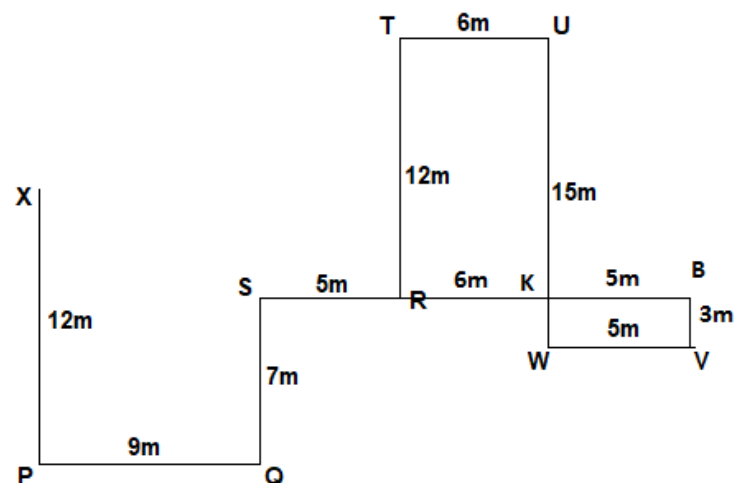


As B @ V (16m), K # B (18m), so B is 3m north of V and K is 5m west of B.

Hence, option b is correct

## Solution 13

As P # Q (25m), S & T (19m), Q @ R (31m) and S % R (17m), so the direction diagram can be:
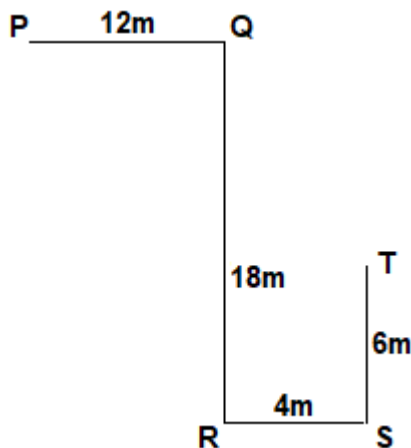


The shortest distance between P and T
= √[(16)2 + (12)2]m
= 20m
Hence, option c is correct

## Solution 14
b. North-East
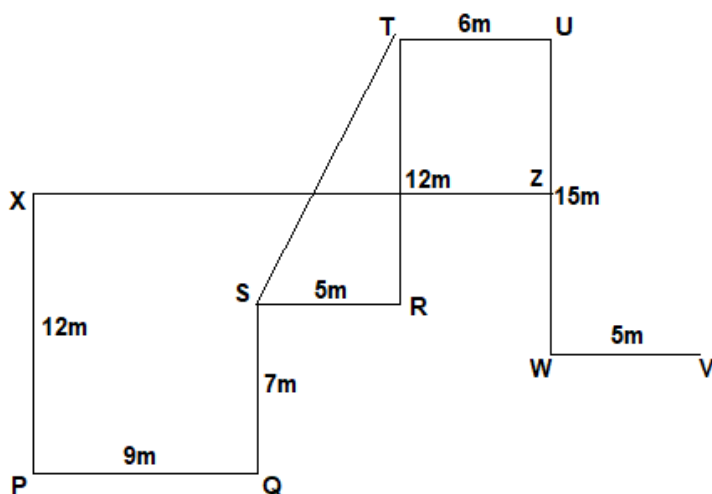


## Solution 15
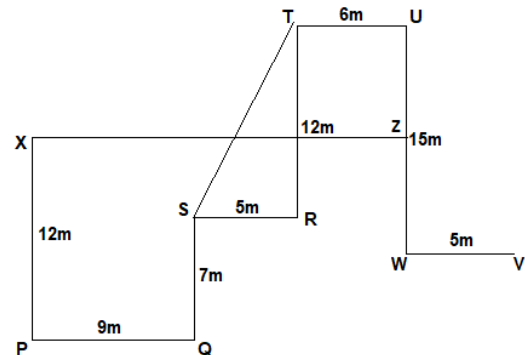


**Hence in triangle SRT, SR= 5m, RT= 12m**
**And $ST^2 = 12^2 + 5^2 = \sqrt{144+25} = \sqrt{169} = 13m$**

## Solution 16
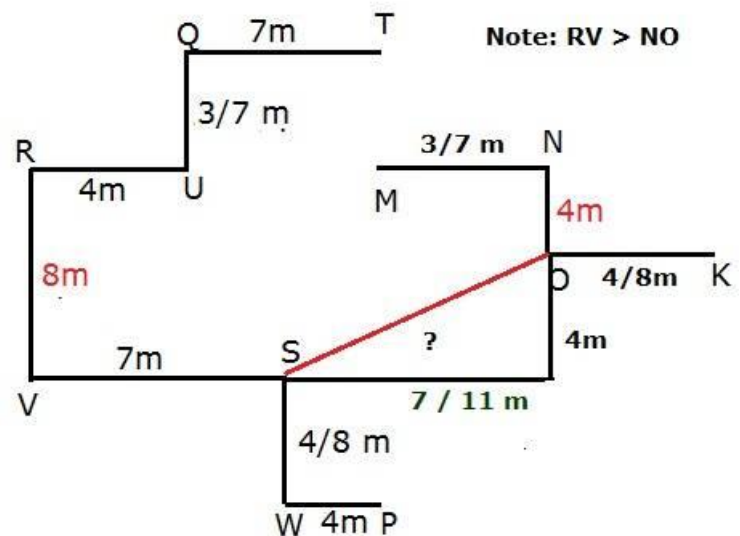


Hence applying Pythagoras theorem,
Case-1
SO= $\sqrt{7^2 + 4^2} = \sqrt{65}$
Case-2
SO = $\sqrt{11^2 + 4^2} = \sqrt{137}$
Hence option D is correct

## Solution 17
b. North-East

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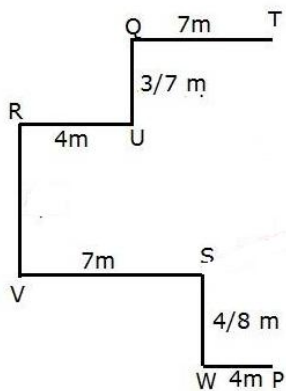
## Solution 18
Hence, R%B is R is south of B either 3 or 7m
RB<QT means RB distance is less than QT which is 7m
Hence, RB=3m and RB=QU=3m Hence, QT+QU =10m
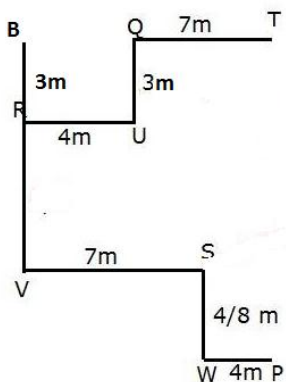


## Solution 19
Hence distance between SW is either 4 or 8m and distance between RU is 4m.
But WP=4m so SW becomes 8m
Hence, RU+SW=12m
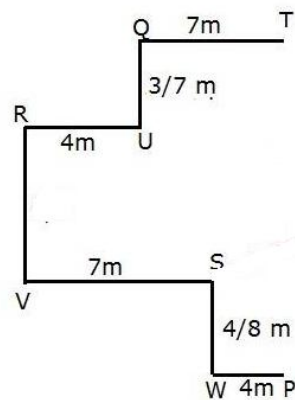
## Solution 20
d. North-West
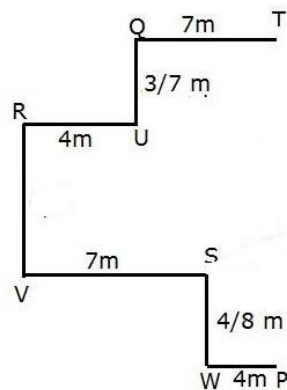


## Solution 21:
Q 2m right of Y who is 4m north of R who is 3m south of L who is 2 m right of K
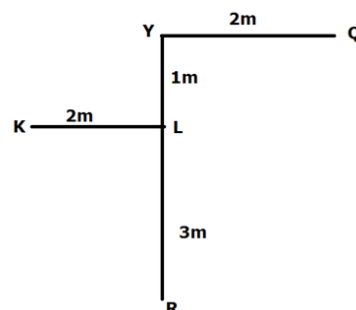


Hence K is North West direction with respect to R.

**Solution 22:**

D—5m—F—5m—Z
(then down 4m to Y, then 4m to G)
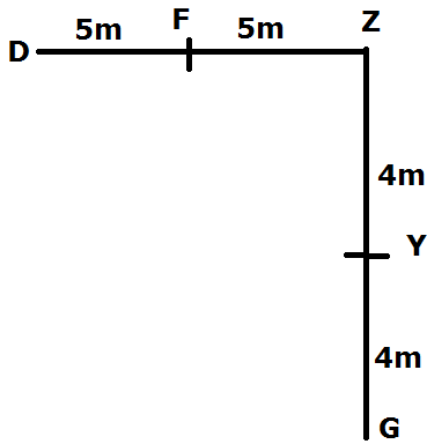
GZ = 8m and DZ = 10m.
Therefore, GD = $\sqrt{10^2+8^2} = \sqrt{} = 13$(approx)
Hence, the minimum distance between G and D is 13m.

**Solution 23.**

T—2m—B—3m—F
(then down 4m, then G—5m—R)
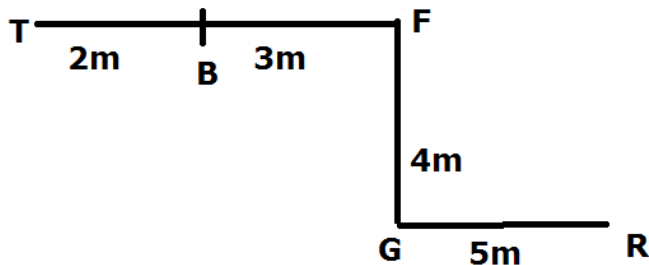
Hence, T is in the North-West direction with respect to R.

**Solution 24**

G
|
3m
|
F—3m—D—2m—P
|
3m
|
A
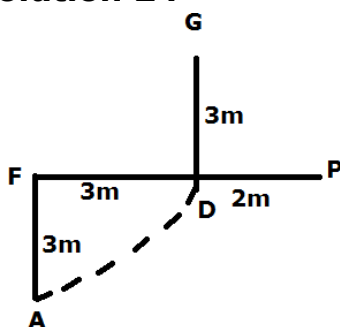
Distance between AF=3m and FD= 3m
By Pythagoras theorem,
$AD^2 = AF^2 + FD^2$
$AD^2 = 3^2 + 3^2 = 9 + 9 = 18$
$AD = 3\sqrt{2}$
Hence, option C is correct.

**Solution 25**

T—2m—B—3m—F
(then down 4m, then G—5m—R)
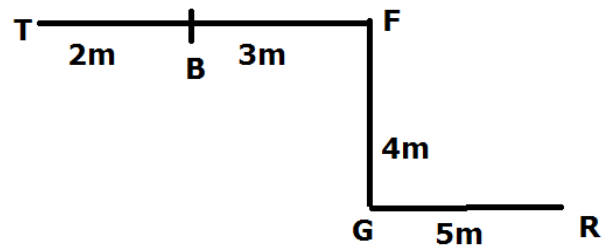
Distance between BF=3m and FG =4 m
By Pythagoras theorem,
$BG^2 = BF^2 + FG^2$
$BG^2 = 3^2 + 4^2$
$BG = \sqrt{9+16}$
$BG = \sqrt{25} = 5m$
Hence, option C is correct

**Solution 26**
**d. North-West**
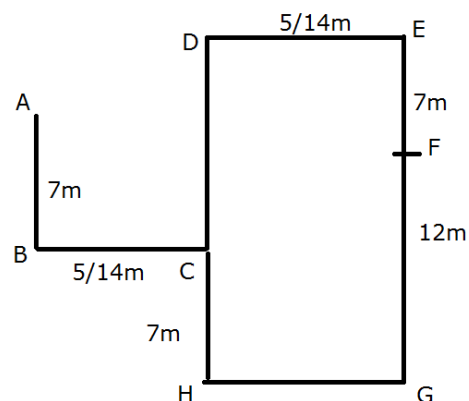
D—5/14m—E
(with A, B on left; 7m segments; F, G, H at bottom; 7m, 12m)

**Solution 27**

**If we apply this condition**

Distance between B and C is same as the distance between D and E and this distance is less than the distance between A and B, Then, DE=BC=5m

Hence DE+BC=10m
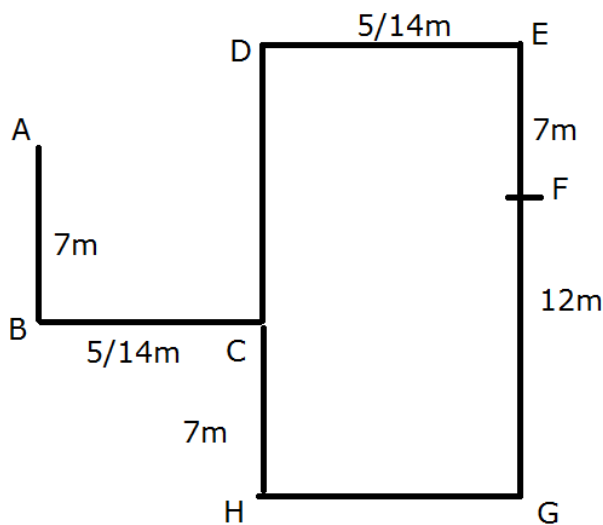


**Solution 28**
**c. 19 m**
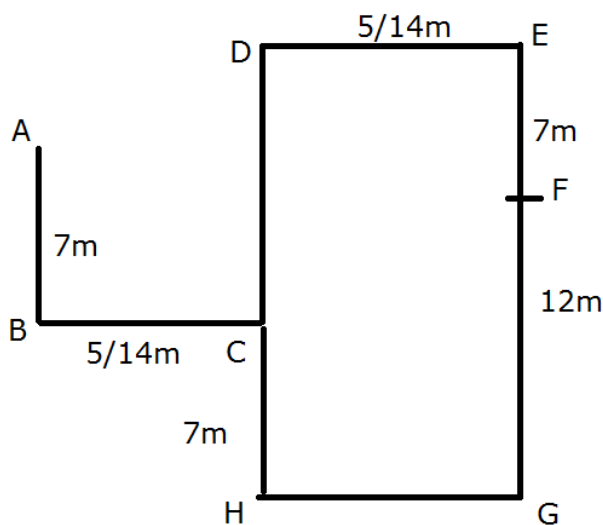


**Solution 29**
**e. South east**
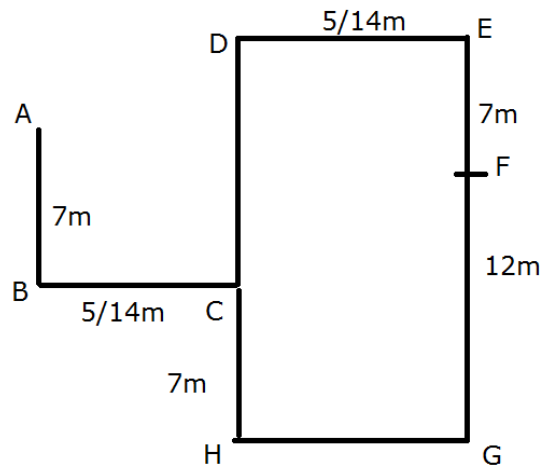


Solution 30

As DH is parallel to EG and EG= 19m

Hence DH= 19m
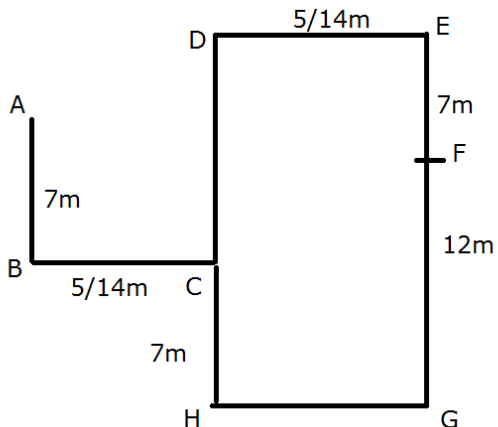


**Solution 31**

As given in the code,

Y # Z (129m) – Y is 137m west of Z, actually Y is (129 + 8) = 137m west of Z.

Y & Z (111m) – Y is 123m north of Z, actually Y is (111 + 12) = 123m north of Z.

Y $ Z (106m) – Y is 99m east of Z, actually Y is (106 – 7) = 99m east of Z.

Y @ Z (97m) – Y is 87m south of Z, actually T is (97 – 10) = 87m south of Z.
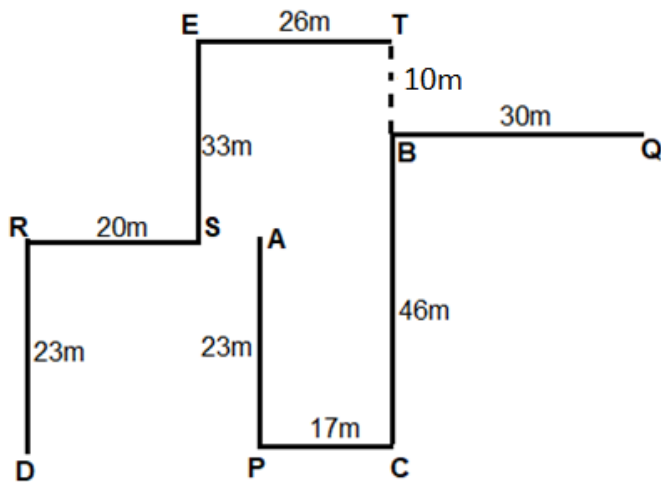


K $ A (24m) means K is 17m east of A.

**Solution 32**
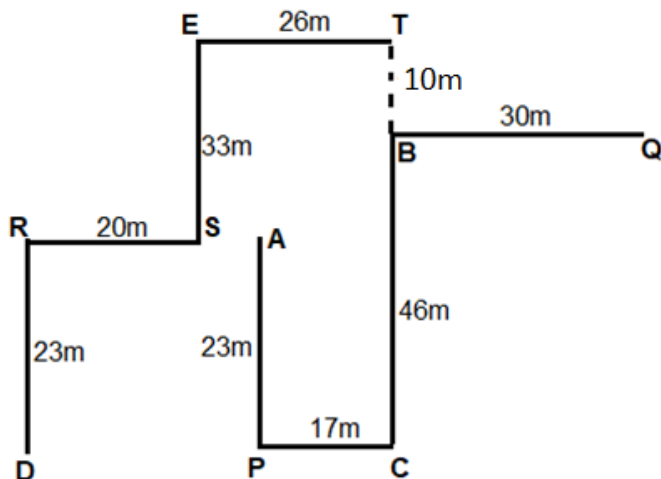


Hence we can see distance between P and D is 29m

**Solution 33**
**e. South West**
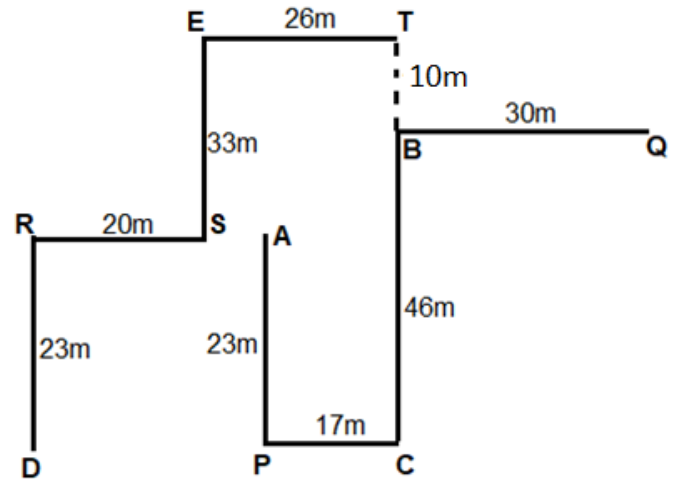
**Solution 34**
M&R 21 means M is north of R and distance between them is 21+12= 33m which is equal to distance between E and S
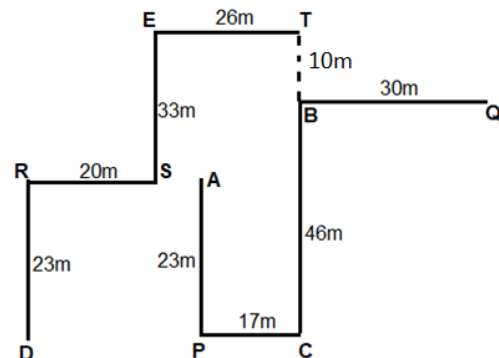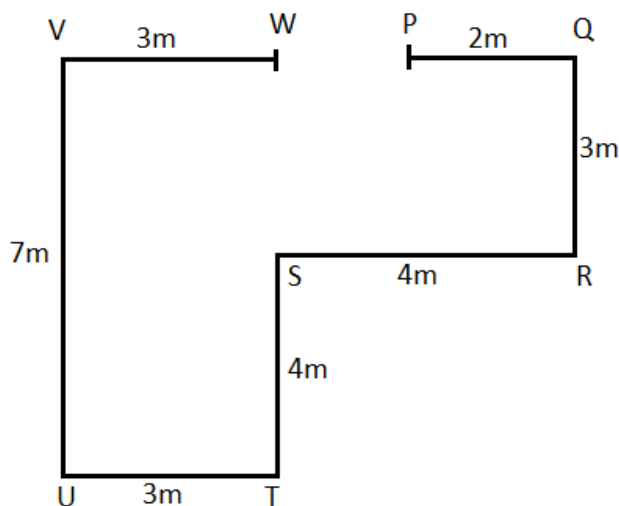


**Solution 35**
**c. North-East**

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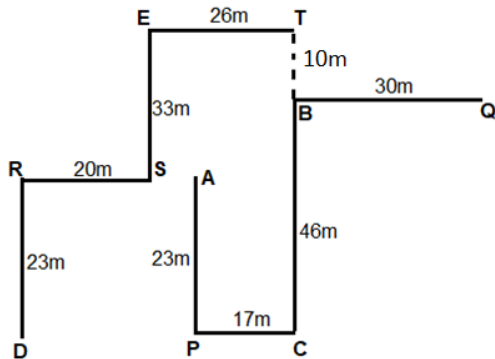
## Solution 36

R is & 6m of Q means R is 3m south of Q

S is $7m of T means S is 4m north of T

V is $10m of U means V is 7m north of U

U is *6m of T means U is 3m west of T

S is *7m of R means S is 4m west of R

V is *6m of W means V is 3m west of W

Q is @5m of P means Q is 2 m east of P
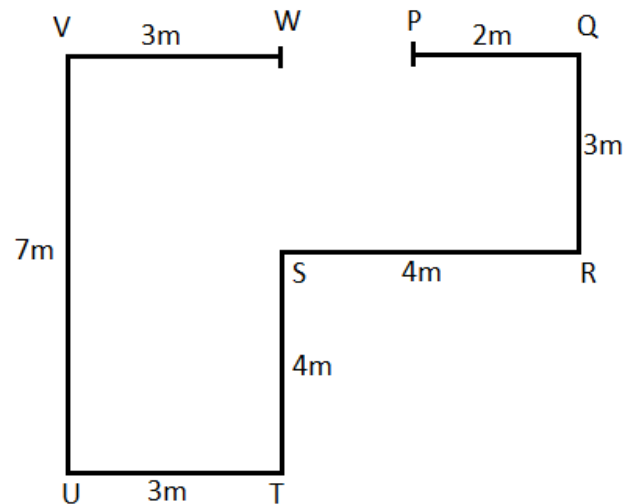


The distance between point W and point T is 7m.

## Solution 37
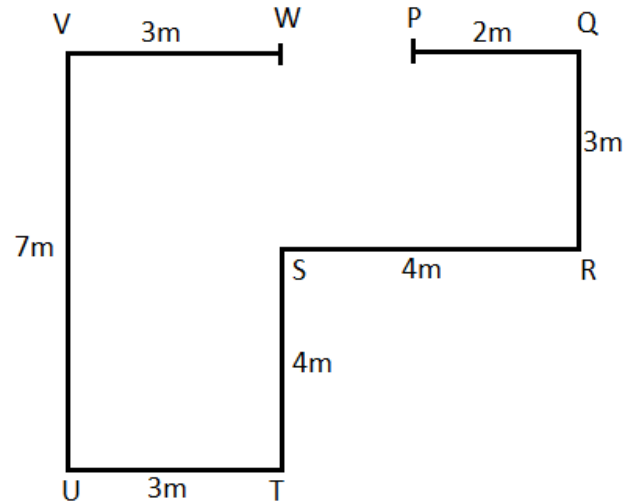


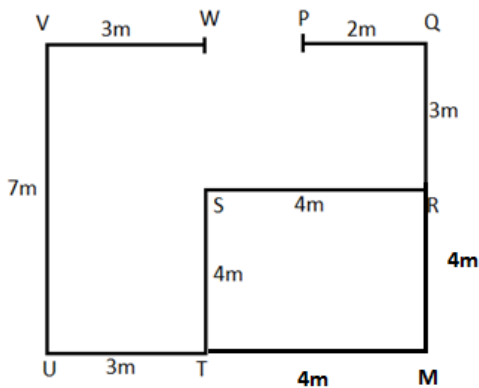Hence distance between V and Q is 7m
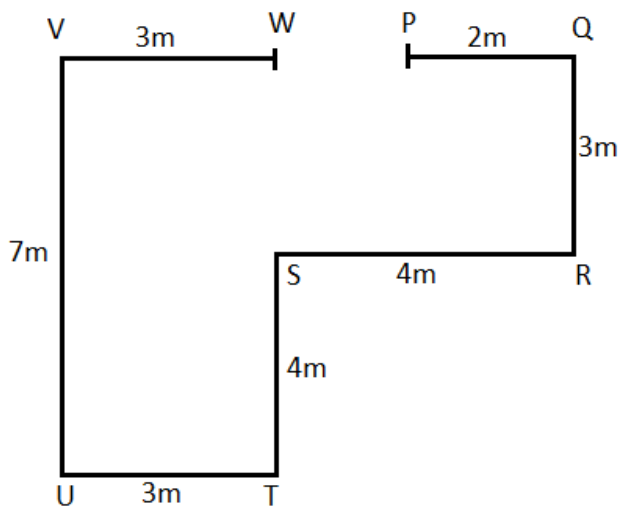
## Solution 38

c. North-East



## Solution 39

Hence M will be 4 m south of R

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The area of Square STMR will be $4^2 = 16m$

## Solution 40



## Solution 41

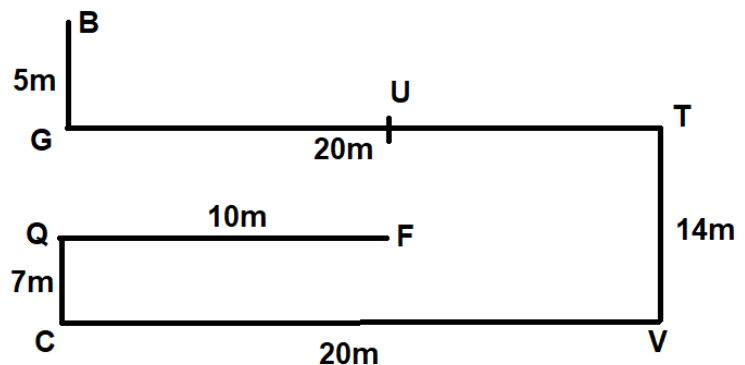G is #5m of B. T is &20m of G. Point T is @14m of V. C is $20m of V. Q is @7m of C. F is &10m Q. U£GT.

Point G is 5m south of point B. Point T is 20m east of point G. Point T is 14m north of point V. Point C is 20m west of point V. Point Q is 7m north of point C. Point F is 10m east point Q. Point U is midpoint of GT.
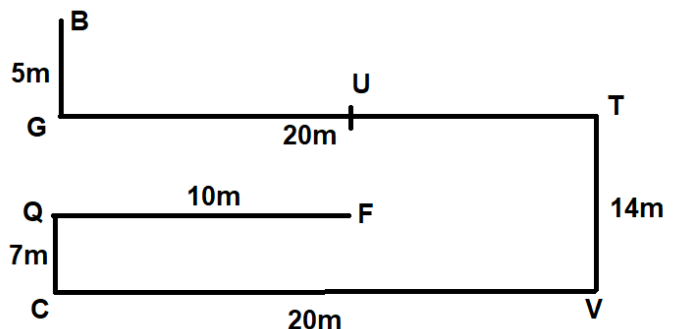
If Point K is 7m south of point T
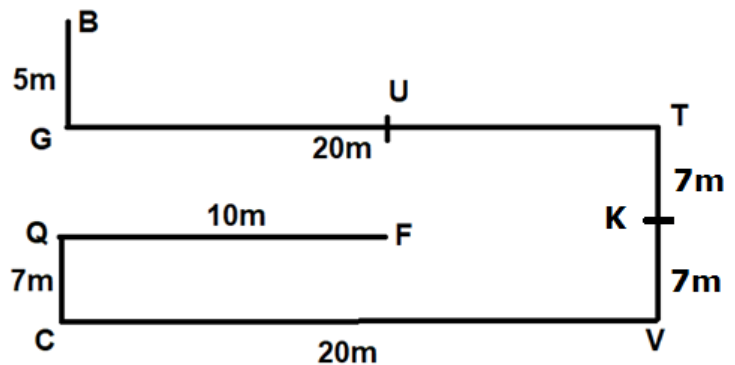


Hence, K is 10 m east of F, so correct answer is &, 10 m
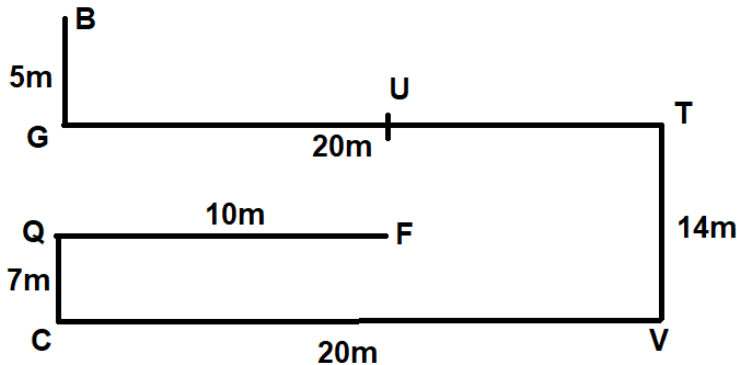
## Solution 42
b. @$



## Solution 43
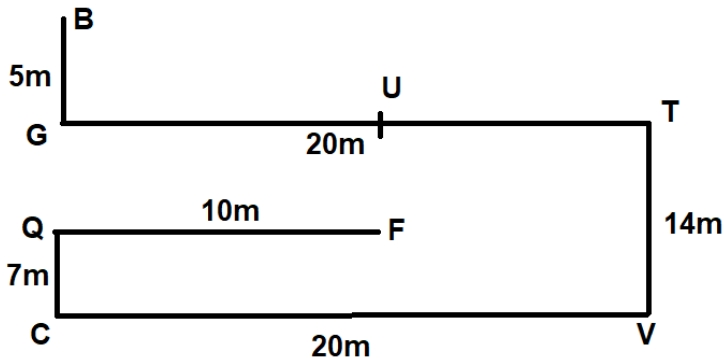


Hence, C is south of G, so correct answer is #

## Solution 44

Hence, QC= 7m and TV =14m and GC = TV
So, GC = GQ + QC
14m = GQ + 7m
GQ = 7m

## Solution 45



BG= 5m and GU =10m
By Pythagoras theorem,
$BU^2 = BG^2 + GU^2$
$BU^2 = 5^2 + 10^2$
$BU = \sqrt{25+100} = \sqrt{125}$
$BU = 5\sqrt{5}$

## Solution 46

**A is 6m%B. C*AB. D is5m@C. E is9m#D. F is6m@E.G is4m%F. H€GI.J is4m#H. G is12m$I.**

After decoding the above statements:

A is 6m north to B. C is in the middle of A and B. D is 5m east to C. D is 9m north to E, which is 6m west to F, which is 4m south to G, which is 12m west to I and H is in the middle of G and I. J is 4m south to H.
The final arrangement is as follows:
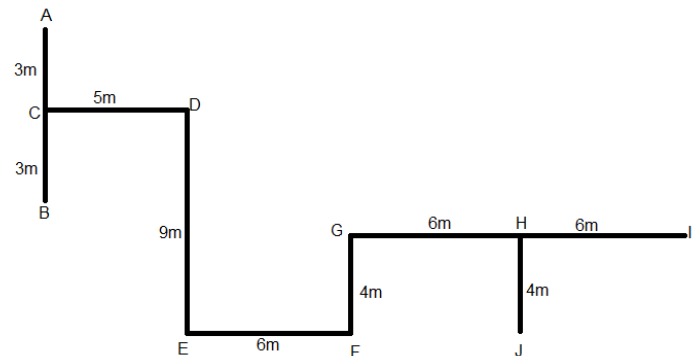


We can calculate the total distance covered by the car.
BC+ CD + DJ.
Distance between D and J can be calculated by using Pythagoras theorem:
$DJ^2 = 144 + 81 = 225m$
DJ = 15m
Total distance = 3 + 5 + 15 = 23m

## Solution 47
FG+ GX + XI
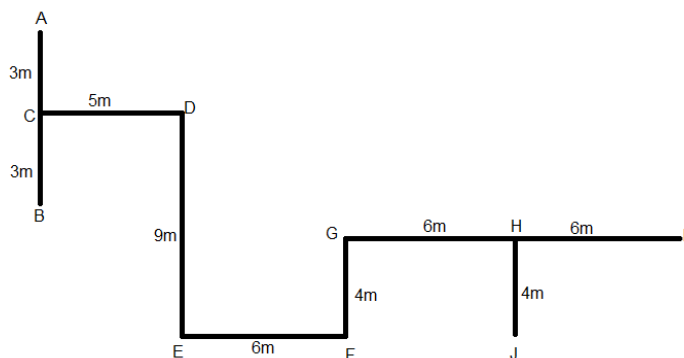Distance between (G and X) and (X and I) can be calculated by using Pythagoras theorem:
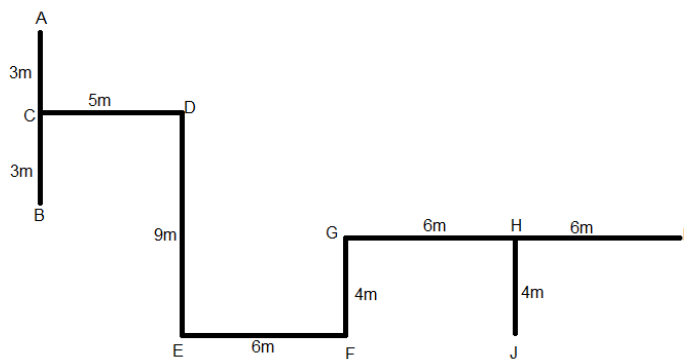$GX^2 = XI^2 = 64 + 36 = 100m$
GX = XI =10m
Total distance = 4 + 10 + 10 = 24m

**Solution 48**



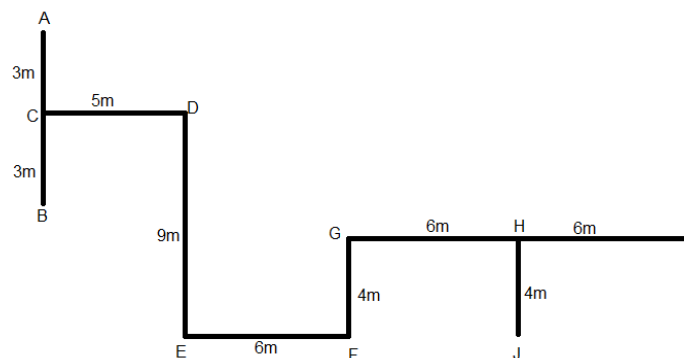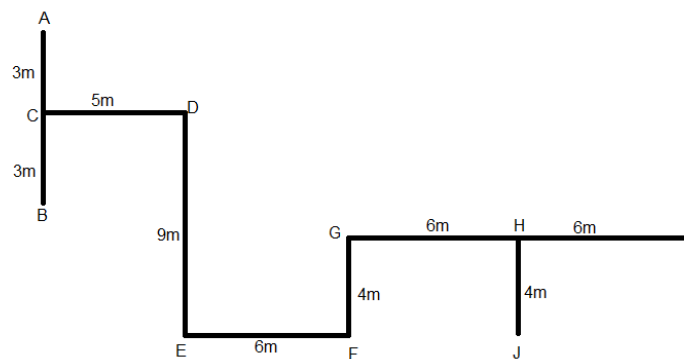**Solution 50**



If Vivek moves 17m towards west from H, then he is 8m far from A.

**Solution 49**
**d. North-West**



Hence total distance between GF and EF= 10m

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