49. C

50. A

The first letter in the code is as per following rules:

a. If the number of letters in the word is even, the 2nd letter from the left of the word is written.

b. If the number of letters in the word is odd, the 2nd letter from the right of the word is written.

The digit in the code is the number of consonants in the word.

The symbol in the code is as per the number letters in the word:

a. If number of letters is 3, the symbol used is @.

b. If number of letters is 4, the symbol used is #.

c. If number of letters is 5, the symbol used is $.

d. If number of letters is 6, the symbol used is %.

e. If number of letters is 7, the symbol used is &.

f. If number of letters is 8, the symbol used is *.

The last letter in the code is the immediate succeeding letter (in alphabetical series) of the last letter of the word.

Example:

'PREACH'

As the number of letters in the word is 4, so the first letter in its code is 2nd letter of the word i.e. R

Number of consonants in the word is 4.

Number of letters in the word is 6, so the symbol used is %.

Last letter of the word is H, so the last letter in the code is immediate succeeding letter of H i.e. I.

Therefore, the code for 'PREACH' is 'R4%I'

Coding Decoding New Pattern 2

Directions (1-5) Study the following information to answer the following questions.

In a certain code,

"Yogi became chief minister" is written as "@# %@ #% %#"

"Prime minister is Modi" is written as "%@ #@ $& @%"

"Adithyanath known as Yogi" is written as "&% %& &$ @#"

"Modi is chief of BJP" is written as "%# @% #@ @& &@"

Where codes are group of 2 symbols.

1) How "Adithyanath is Yogi" possible will be coded?

a. %@ %@ &$

b. &% @% @#

c. &$ %@ @#

d. %@ &@ &$

e. None of these

2) What is code for word "Prime"?

a. #@

b. %@

c. $&

d. Can't be determine

e. Either %@ or #@

3) What is code for word "Becomes"?

a. #%

b. %@

c. $&

d. Can't be determine

e. Either %@ or #@

4) "%# @% #@" will be code of?

a. Chief of BJP

b. Modi is BJP

c. Modi is chief

d. Can't be determine

e. None of these

5) What is code for word "BJP"?

a. #@

b. %@

c. $&

d. Can't be determine

e. Either %@ or #@

Directions (6-10): Study the following information carefully and answer the questions given below.

In coded language

"tradition festival iconic" is coded as – '8X 9J 6XJ'

"aesthetic recreate vibe" is coded as – '8E 9VJ 4W'

"creative emerging shine" is coded as – '8NO 5K 8C'

6) What can be the code of 'during autumn'?

a. 6M 7FN

b. 6M 6FN

c. 6K 6FN

d. 6K 6EM

e. None of these

7) What can be the code of 'Impulse Response'?

a. 7NT 7F

b. 8T 7NR

c. 8F 7MT

d. 7NT 8F

e. None of these

8) What can be the code of 'Vibrant Ocean'?

a. 5XB 7J

b. 5XB 7K

c. 5XZ 7M

d. 5YB 7K

e. None of these

9) What can be the code of 'Ideal Journey'?

a. 5WC 7T

b. 5FB 7T

c. 5WC 7V

d. 5FB 7V

e. 5WB 7T

10) What can be the code of 'Enough Rise'?

a. 6NF 4F

b. 6MH 4F

c. 6MF 4D

d. 6MH 4H

e. None of these

Directions(11-15): Study the following and answer the following questions:

In a certain code language

"START HER FOOD IN" is coded as "I#8 V#19 L@21 R@18".

"THE HUMAN MAKE PRODUCTION" is coded as "S#7 Z#19 P@14 L@11".

"HAIR RETURNED VICTORY SILENCE" is coded as "R@19 V@9 I#5 X#8".

11) What is the possible code for 'HANDSOME' in the given code language?

a. N@19

b. M#8

c. N#19

d. M@8

e. None of these

12) What may be the possible code for 'EXCLUDING' in the given code language?

a. M#19

b. M#18

c. M@18

d. N#18

e. None of these

13) What may be the possible code for 'ONWARD' in the given code language?

a. I#12

b. M#23

c. I@12

d. I@15

e. None of these

14) What is the code for 'RETURNED' in the given code language?

a. R@19

b. V@9

c. I#5

d. X#8

e. None of these

15) What is the code for 'PRODUCTION' in the given code language?

a. S#7

b. Z#19

c. P@14

d. L@11

e. None of these

Directions(16-20): Study the following information and answer the given below questions.

In a certain code language

'garden tangle soaps paper' is written as '@E6 &R5 %N6 #S5'.

'great teeth solution paste' is written as '#N8 @H5 %T5 &E5'.

'super pink gold theory' is written as '#R5 %D4 @Y6 &K4'.

'glory soup poem tongue' is written as '&M4 #P4 %Y5 @E6'.

16) Which of the following is code for "pink solution"?

a. &K4, #N8

b. &P4, &N6

c. #N8, %K4

d. %T5, #R5

e. Can't be determined

17) In the given code language, what does the code "%T5" means?

a. Teeth

b. Theory

c. Tongue

d. Great

e. Paste

18) Which of the following is code for "tongue soaps"?

a. %E6, #S5

b. @E6, &S5

c. @E6, #S5

d. #E6, @S5

e. @F, #T5

19) Which of the following is code for "gold"?

a. #R5

b. %D4

c. @Y6

d. &K4

e. None of these

20) Which of the following is code for "'glory"?

a. &M4

b. #P4

c. %Y5

d. @E6

e. None of these

Directions (21-25): Study the following information and answer the given below questions.

In a certain code language

'Pollution is root of everything' is written as 'G&10 S^2 F)2 T*4 N?9'.

'Ramesh have everything he wants' is written as 'H%6 G&10 E#4 E#2 S!5 '.

'This tree have long root' is written as 'E~4 S@4 E#4 T*4 G|4'.

'Ramesh have short hair' is written as 'E#4 T$5 H%6 R#4'.

21) What is the code for "hair"?

a. E#4

b. E^4

c. R#4

d. R@4

e. R!4

22) What is the code for "everything"?

a. G&10

b. G%10

c. E#10

d. E&10

e. N@10

23) In the given code language, what does the code "E~4" means?

a. Have

b. This

c. Tree

d. Hair

e. Can't be determined

24) What is the code for "'Ramesh"?

a. E#4

b. T$5

c. H%6

d. R#4

e. None of these

25) What is the code for "Pollution"?

a. G&10

b. S^2

c. F)2

d. T*4

e. N?9

Directions (26-30): Refer to the data below and answer the questions that follow.

In a certain code language,

'lack the necessary medical' is written as '4kK 7lL 3eS 9yM''

floods occur every year' is written as '4rX 5rN 5yD 6sE''

people have become crazy' is written as '5yB 4eG 6eO 6eA''

more public health services' is written as '6hG 8sR 4eL 6cO'

26) Which of the following is code for "more floods occur"?

a. 4Le 6Se 5Rn

b. 4eL 6sG 5rN

c. 4eL 6sE 5rN

d. 4rX 6eA 5yD

e. Can't be determined

27) In the given code language, what does the code "3eS 9yM 8sR" means?

a. the public services

b. every necessary services

c. the necessary services

d. more necessary services

e. Can't be determined

28) In the given code language, what does the code "5yD 6eO" means?

a. Public occur

b. Crazy people

c. Every public

d. Every people

e. Can't be determined

29) Which of the following is code for "necessary health year"?

a. 9yM 6hG 4rZ

b. 9yN 6hG 4rZ

c. 9yM 6hI 4rX

d. 9yM 6hG 4rX

e. Can't be determined

30) Which of the following is code for "occur"?

a. 4rX

b.5rN

c. 5yD

d. 6sE

e. None of these

Directions (31-35): Study the following information carefully and answer the given questions.

In a certain code language

"Lynch Called Songs" is coded as "S25Z B19O C12M".

"Rhythm Twenty Identical" is coded as "N25I E20F B25F"

"System Together Celebrate" is coded as "D20H B25T E20M".

31) What is the code for 'Simplify?

a. D21L

b. C25L

c. C25N

d. B22L

e. None of these

32) What is the code for 'Hymn?

a. N25Z

b. Z25M

c. X23H

d. M25Z

e. M23Z

33) What is the code for 'Announced?

a. E21O

b. E21M

c. D21M

d. B20M

e. None of these

34) What is the code for 'Celebrate '?

a. E21O

b. E21M

c. D20H

d. B25T .

e. E20M

35) What is the code for 'Songs?

a. S25Z

b. B19O

c. C12M

d. B20M

e. None of these

Directions (36-40): Study the following information carefully and answer the given questions.

In a certain code language: -

"case draft lock" is written as 'T@X G#EG D@O'

"serious blow white" is written as 'H#TV P@Y V#SU'

"pride kite null" is written as 'V#CE U@P M@M'

"green very soon" is written as 'M#DF S@E P@H'

36) In the given coding language, which of the following will be the code for "announce"?

a. D@V

b. V#BD
c. D#BV
d. D@Z
e. V@XZ

37) In the given coding language, which of the following will be the code for "drone"?

a. M@W
b. M#VW
c. V@M
d. V#MO
e. V@O

38) Which of the following words could be coded as "M#VX"?

a. Magnet
b. Sword
c. Known
d. Gone
e. None of these

39) In the given coding language, which of the following will be the code for "soon"?

a. D@V
b. V#BD
c. M#DF
d. S@E
e. P@H

40) In the given coding language, which of the following will be the code for "blow"?

a. H#TV
b. P@Y
c. V#SU
d. D@Z
e. V@XZ

Directions (41-45): Refer to the data below and answer the questions that follow.

'winter happy feeling' is coded as ' I13% E11@ O22# '
'summer heat mountain is coded as ' I14% A26% U6& '
'raining queueing clown' is coded as ' O18# U22$ E12@ '

41) What is the code for 'Maximize' in the given code language?

a. E22#
b. O3$
c. U22#
d. U3&
e. None of these

42) What may be the possible code for 'Veracity' in the given code language?

a. U9#
b. O5$
c. E9#
d. A2&
e. None of these

43) What may be the possible code for 'Naval army' in the given code language?

a. E14% A13&
b. E5% A14@
c. O5% E13@
d. A14@ I13$

e. None of these

44) What is the code for 'College days' in the given code language?

a. I12% E2@

b. E15@ A2&

c. O15# A2@

d. A2# O15$

e. None of these

45) What is the code for 'clown' in the given code language?

a. E22#

b. O3$

c. O18#

d. U22$

e. E12@

Directions (46-50): Refer to the data below and answer the questions that follow.

In a certain code language,

"Sun sets in the west" is coded as "UX FU OJ TT OT".

"Vanilla is a flavour" is coded as "SG B TJ BW".

"Mango is a fruit" is coded as "UG B TJ PN".

46) What is the code for "fruit"?

a. UG

b. TJ

c. PN

d. B

e. OJ

47) What is the code for "audio"?

a. QF

b. PB

c. TJ

d. TT

e. NZ

48) What word does the code FD denote?

a. take

b. creep

c. cake

d. grass

e. key

49) What is the code for "Mango"?

a. QF

b. UG

c. BF

d. TJ

e. PN

50) What is the code for "Sun"?

a. UX

b. FU

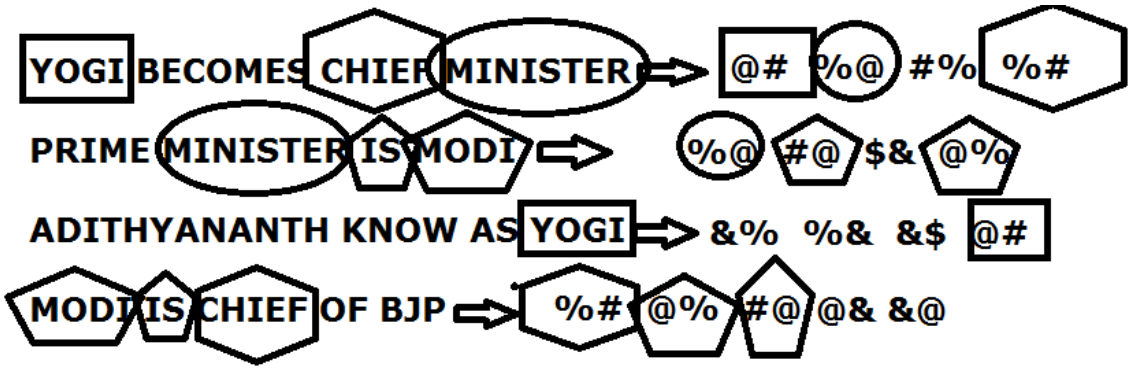
c. OJ

d. TT

e. OT

Coding Decoding New Pattern 2 – Answer and Explanation

Solution(1-5):



1. E
2. C
3. A
4. C
5. D

Solution(6-10):

Let us understand the logic behind the given coding decoding

Case-1: If the first letter of the code is consonant-

a. Second last letter of the word changed to second preceding letter of the opposite letter.

b. Number – Total number of letters in the word.

For Ex- FESTIVAL -8X

Case-2: If the first letter of the code is vowel.

a. Second letter of the word changed to opposite letter of the same.

b. Second last letter of the word changed to next letter of the same.

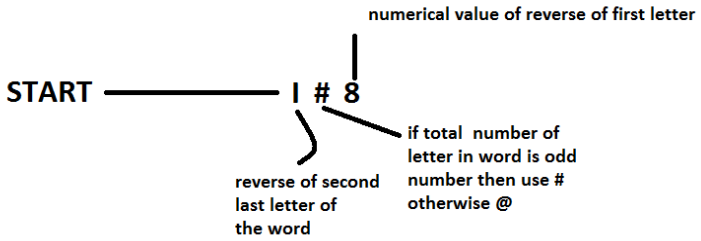
c. Number – Total number of letters in the word.

For Ex- iconic- 6XJ

6. C
7. D
8. B
9. E
10. B

Solution(11-15):

Here, we are applying following concept: -



11. A
12. E
13. C
14. B
15. D

Solution(16-20):

1. 1st element is symbol that represents first letter of word.
2. 2nd element is letter that represent last letter of word.
3. 3rd element is number that represents number of letter in word.

Ex: &K4 for “pink”,

K is the last letter in the word pink.

4 is number of letters in word.

& is the symbol that represent first letter of word "pink" which is "p".

#N8 for "solution",

N is the last letter in the word plan.

8 is number of letters in word.

is the symbol that represent first letter of word "solution" which is "s"

16. A

17. D

18. C

19. B

20. C

Solution(21-25):

1) 1st element is letter that represents last letter of word.

2) 3nd element is number that represents number of letter in word.

3) 2rd element is the symbol that represents the first letter of the word.

Ex: G&10 for "everything".

G is the last letter in the word plan.

10 is number of letters in word.

& is the symbol that represent first letter of word "everything" which is "e".

21. C

22. A

23. C

24. C

25. E

Solution(26-30):

1) The first element is a number which represents the number of letter in that word.

2) The second element is the letter which represents the last letter of word.

3) The third element is a letter which represents before letter in the capital form of the first letter of the word.

Ex: 9yM for "necessary".

9 is number of letters in word.

"y" is the last letter of the word.

M is the before letter in the capital form of the first letter i.e. "n" of the word.

26. C

27. C

28. D

29. D

30. B

Solution(31-35):

For the digit of the code – Number in the code will be the place value of the highest place value of letter present in the word.

For the first letter of the code-

Case-I

If the given word has some vowels, then the code will be according to the given order:

No. of vowels in the word	**Code**
1	B

2	C
3	D
4	E

For ex- Arrive -In this word three vowels letters 'a, e and i'. So the first letter of code for Arrive is 'D '.

For the last letter of the code – The immediate succeeding letter of the third letter present in the word according to the English alphabet.

Case II:

If the given word has no vowel letter, then first letter of the code will be coded as opposite letter of the last letter of the word.

For the last letter of the code – The immediate succeeding letter of the second letter present in the word according to the English alphabet.

31. C

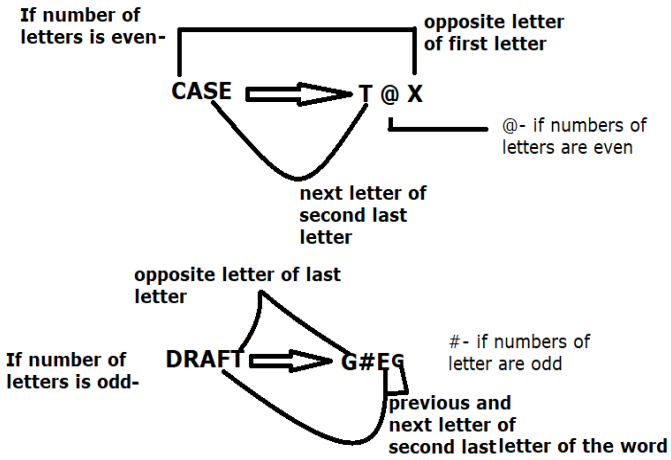
32. D

33. A

34. E

35. B

Solution(36-40):



36. D

37. D

38. C

39. E

40. B

Solution(41-45):

Symbol: Symbols in the code are used according to number of vowels present in the word i.e.

1 vowel- @

2 Vowels - %

3 Vowels - #

4 vowels -&

5 vowels -$

Vowels: Vowels in the code are used according to number of letters in the word

4 letters- A

5 letters- E

6 letters- I

7 letters- O

8 letters- U

Number: Numbers in the code are used according to place value of the reverse letter of the 3rd letter of the word.

41. D

42. A

43. B

44. C

45. E

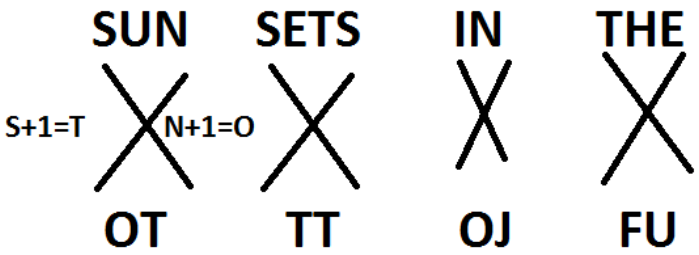
Solution(46-50):

1. The first letter of the code denotes the alphabet that comes after the last letter of the word.

2. The last letter of the code denotes the alphabet that comes after the first letter of the word.

3. The code words arranged in the reverse order of the sentence.

4. The whole code is in the reverse order of the sentence.



46. A

47. B

48. C

49. E

50. E

Coded Direction

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. $3\sqrt{2}$ 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

Coded Direction – Answer and Explanation

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.

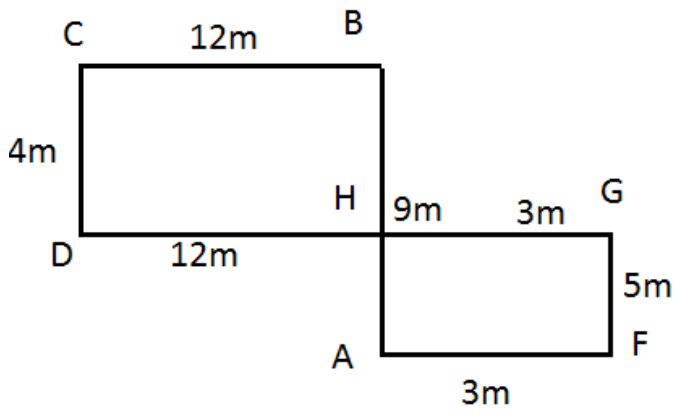
If we apply the above condition than distance between D and C must be 4m and Distance between B and A must be 9m.

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



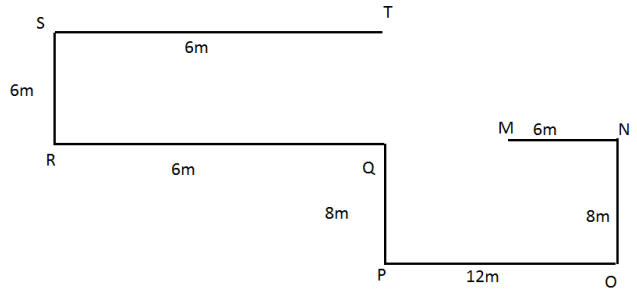
Solution 5

AF=CJ means CJ =3m also we know CD=4m

Hence from Pythagoras theorem

JD=5m

Solution 6-10



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.

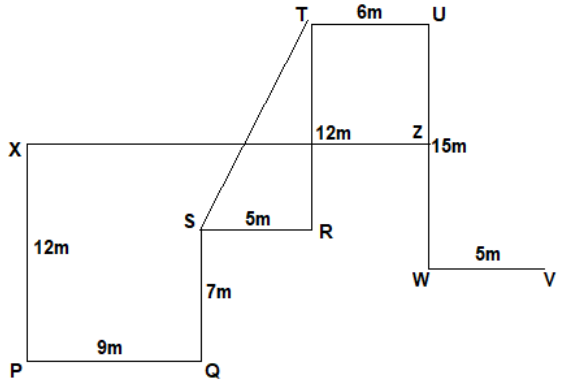
M # N (58m) – M is 45m west of N, here (58 – 45) = 13m.

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

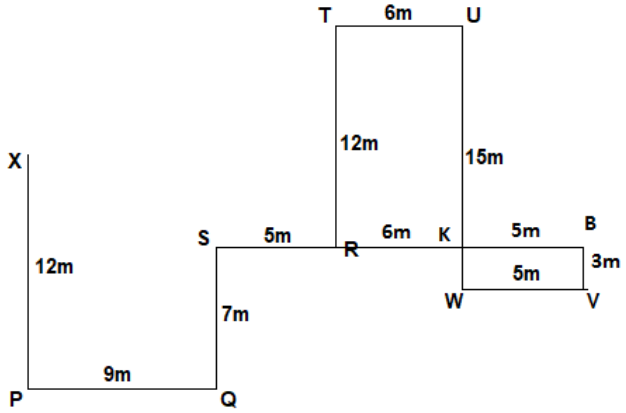
Hence, option a is correct

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:

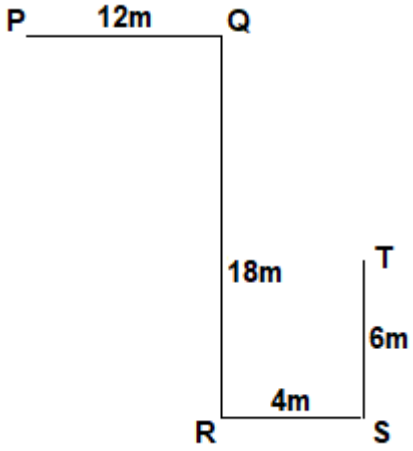


As B @ V (16m), K # B (18m), so B is 3m north of V and K is 5m west of B.

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

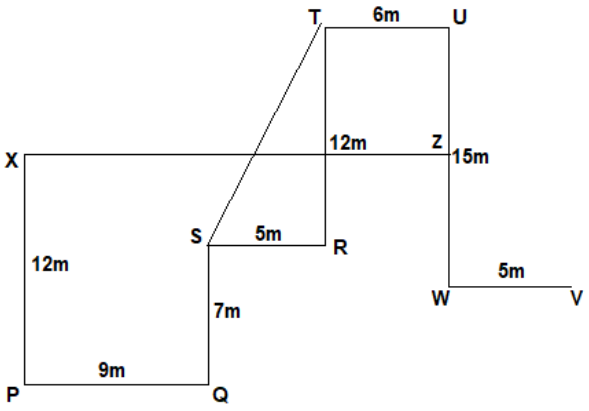
= √[(16)2 + (12)2]m

= 20m

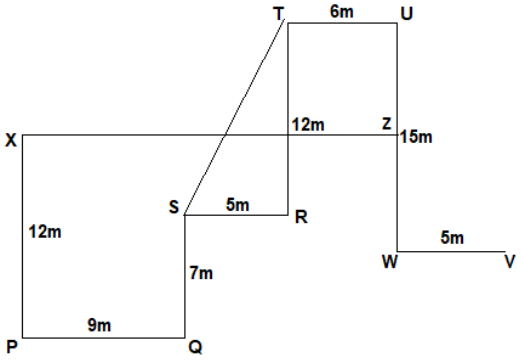
Hence, option c is correct

Solution 14

b. North-East



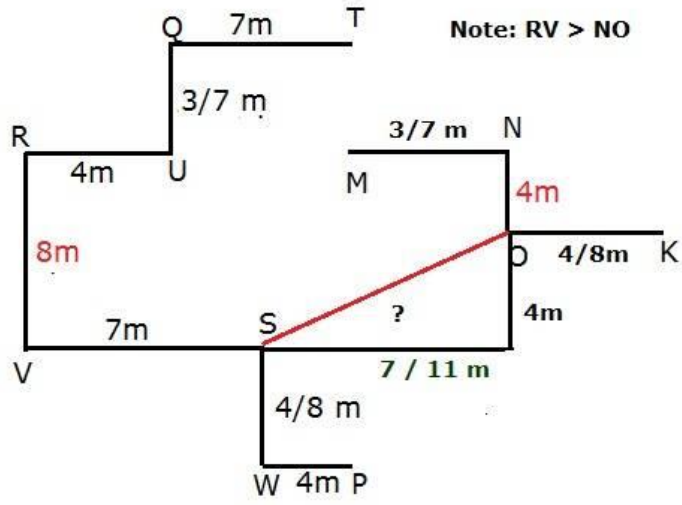
Solution 15



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= $\sqrt{7^2 + 4^2} = \sqrt{65}$

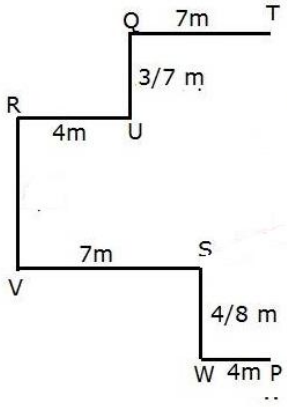
Case-2

SO = $\sqrt{11^2 + 4^2} = \sqrt{137}$

Hence option D is correct

Solution 17

b. North-East

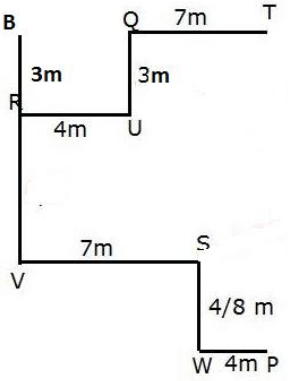


Solution 18

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

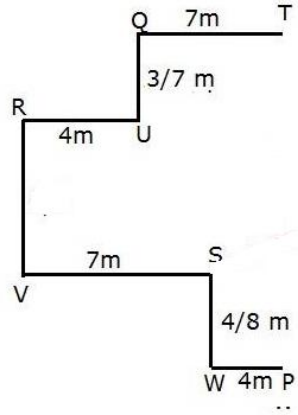


Solution 19

Hence distance between SW is either 4 or 8m and distance between RU is 4m.

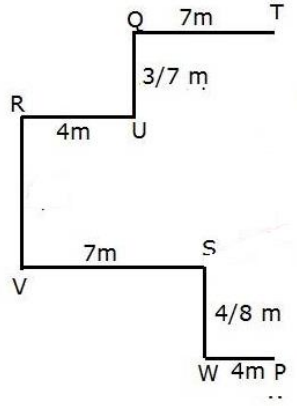
But WP=4m so SW becomes 8m

Hence, RU+SW=12m



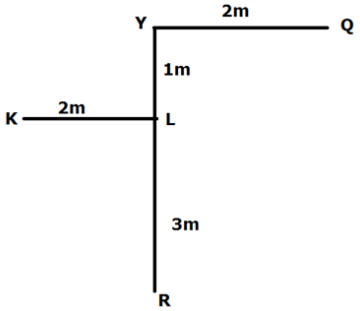
Solution 20

d. North-West



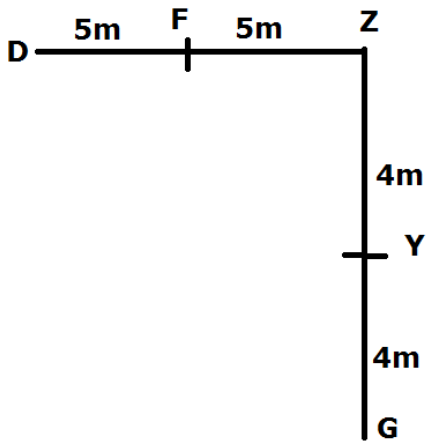
Solution 21:

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:

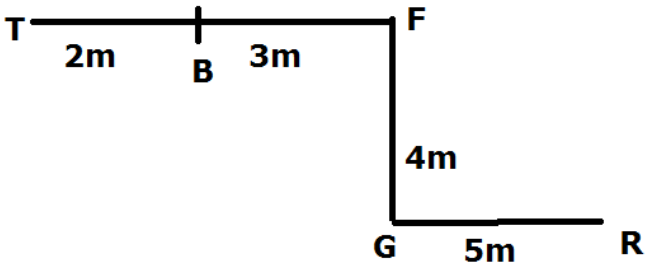


GZ = 8m and DZ = 10m.

Therefore, GD =$\sqrt{10^2+8^2}$=√=13(approx)

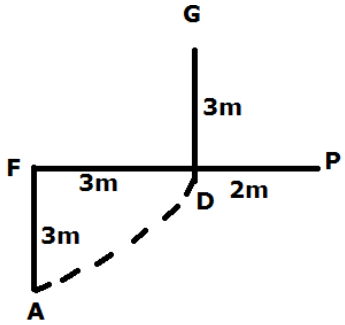
Hence, the minimum distance between G and D is 13m.

Solution 23.



Hence, T is in the North-West direction with respect to R.

Solution 24



Distance between AF=3m and FD= 3m

By Pythagoras theorem,

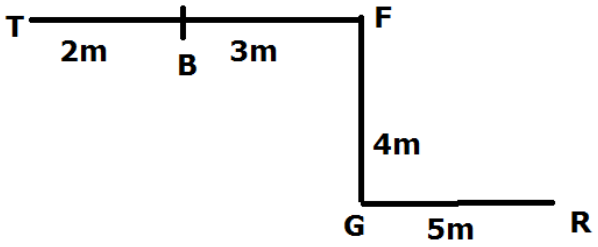
$AD^2 = AF^2 + FD^2$

$AD^2 = 3^2 + 3^2 = 9 + 9 = 18$

$AD = 3\sqrt{2}$

Hence, option C is correct.

Solution 25



Distance between BF=3m and FG =4 m

By Pythagoras theorem,

$BG^2 = BF^2 + FG^2$

$BG^2 = 3^2 + 4^2$

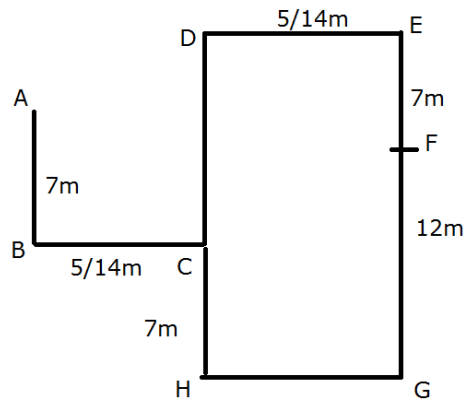
BG = √9+16

BG =√25 = 5m

Hence, option C is correct

Solution 26

d. North-West



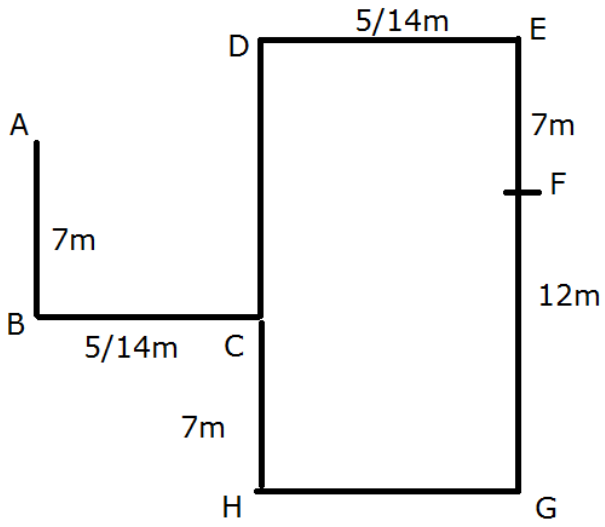
Solution 27

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,

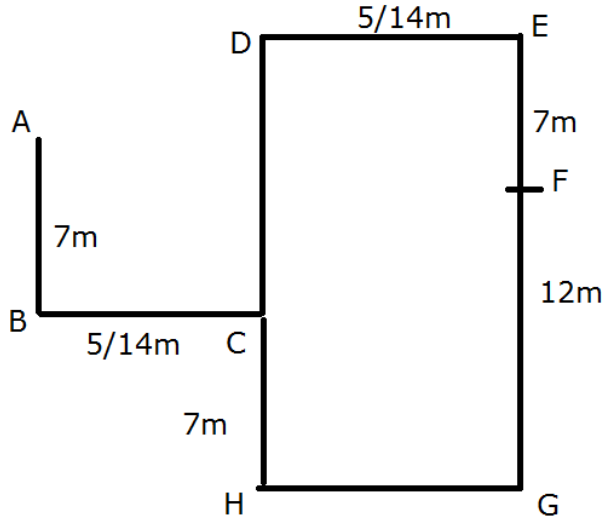
Then, DE=BC=5m

Hence DE+BC=10m



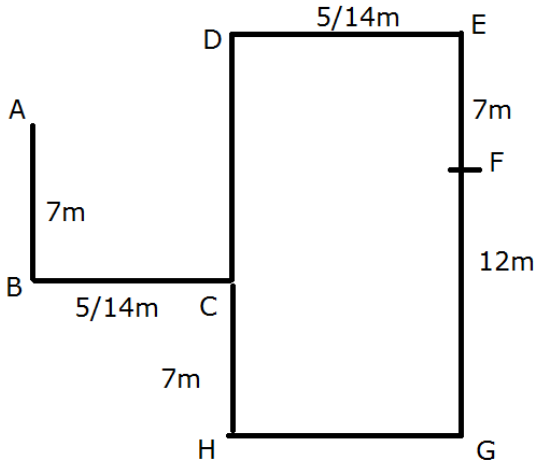
Solution 28

c. 19 m



Solution 29

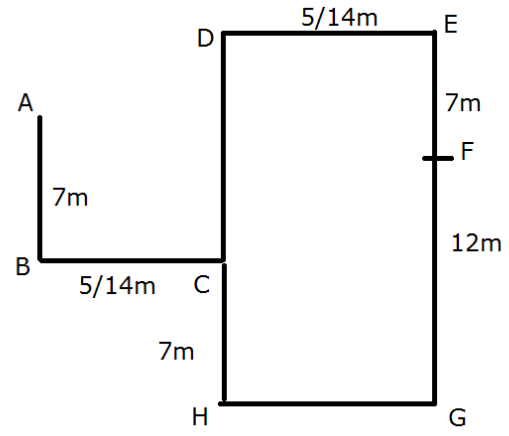
e. South east



Solution 30

As DH is parallel to EG and EG= 19m

Hence DH= 19m



Solution 31

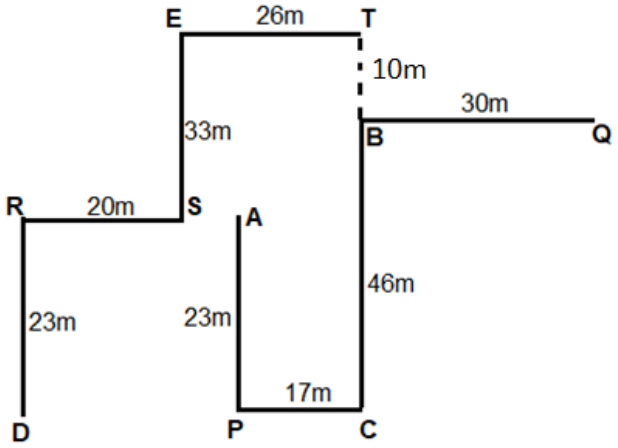
As given in the code,

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.

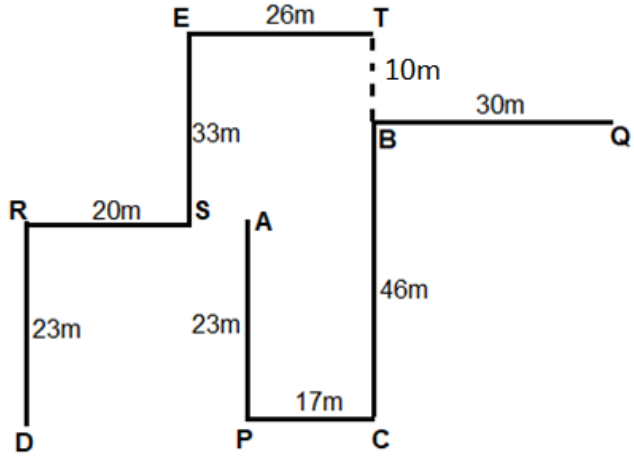
Y $ Z (106m) – Y is 99m east of Z, actually Y is (106 – 7) = 99m east of Z.

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.

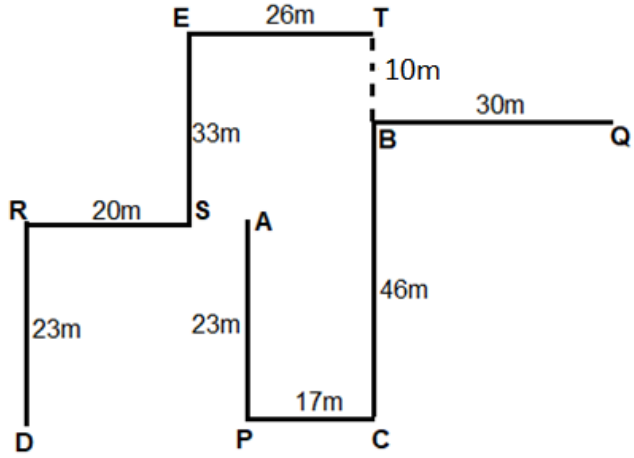
Solution 32



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

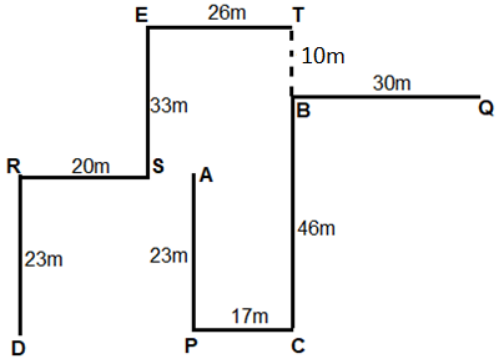
Solution 33

e. South West



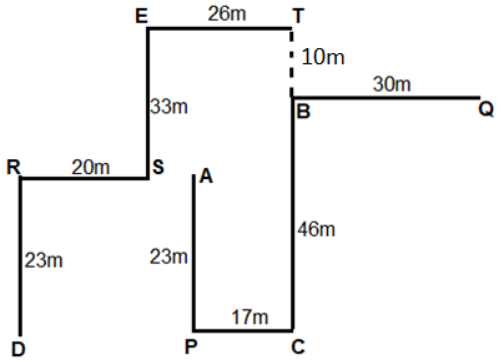
Solution 34

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



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

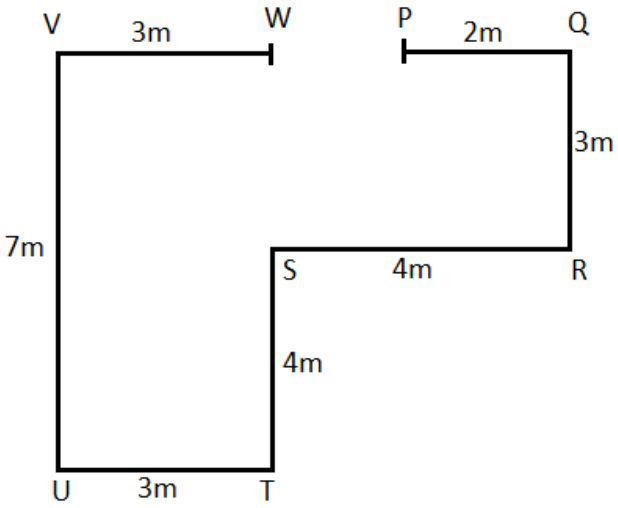
V is $10m of U means V is 7m north of U

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

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

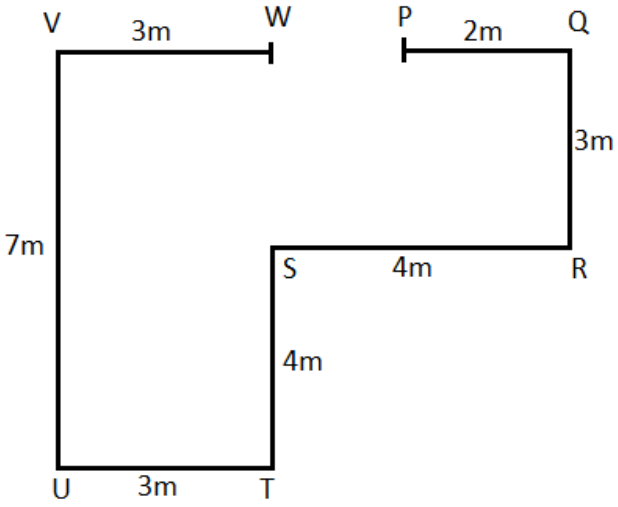
V is *6m of W means V is 3m west of W

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



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

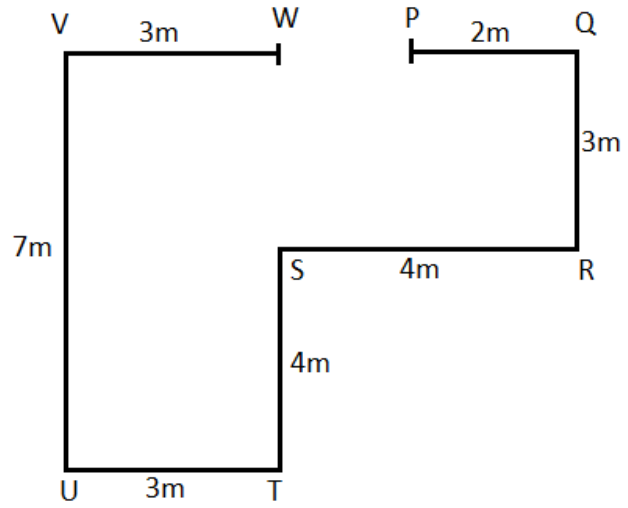
Solution 37



Hence distance between V and Q is 7m

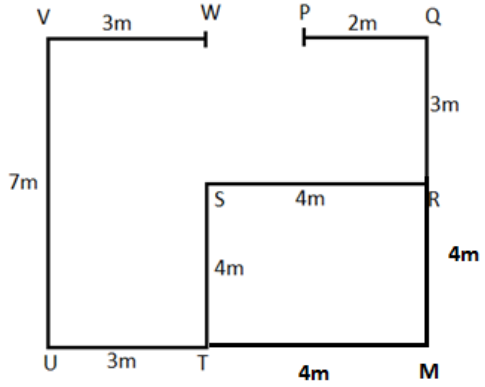
Solution 38

c. North-East



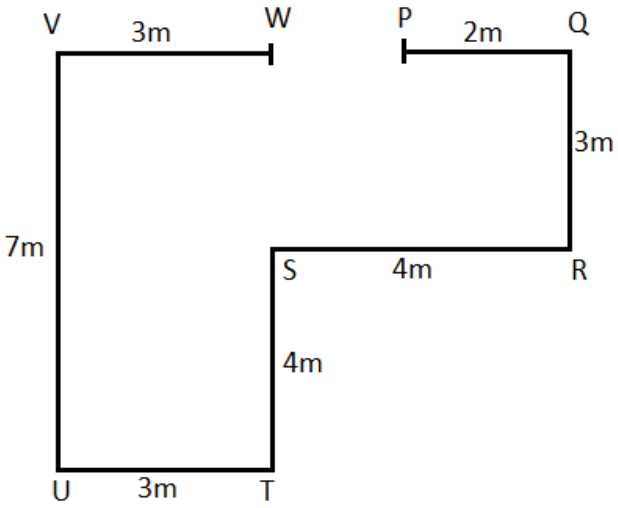
Solution 39

Hence M will be 4 m south of R



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

Solution 40

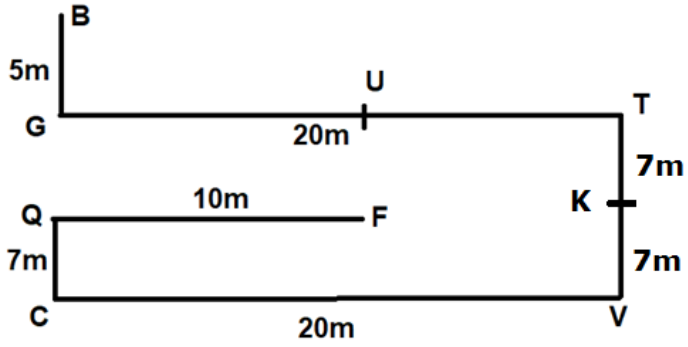


Solution 41

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.

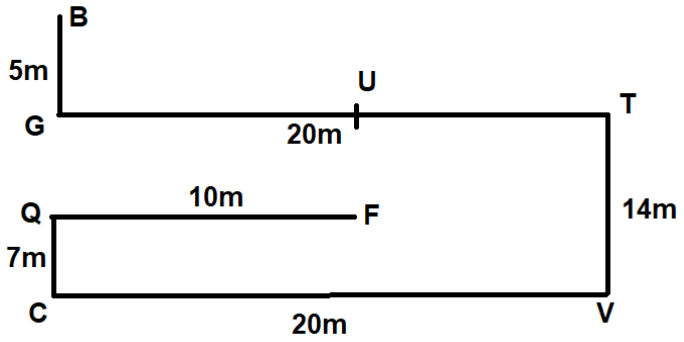
If Point K is 7m south of point T



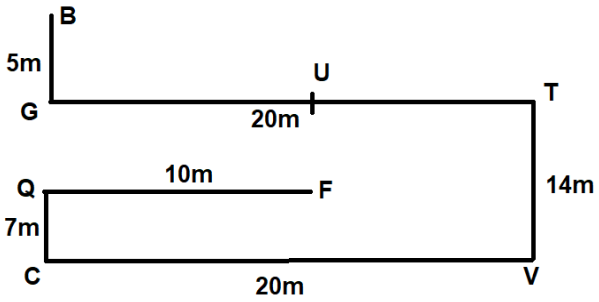
Hence, K is 10 m east of F, so correct answer is &, 10 m

Solution 42

b. @$

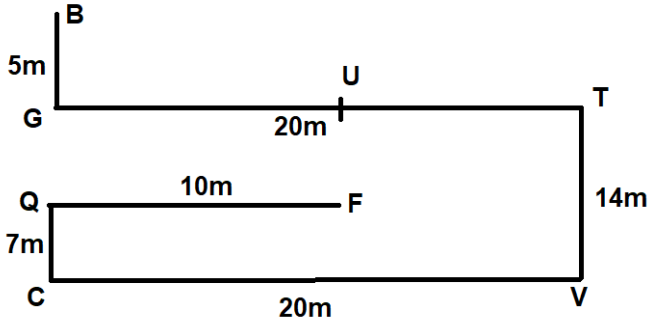


Solution 43



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

Solution 44



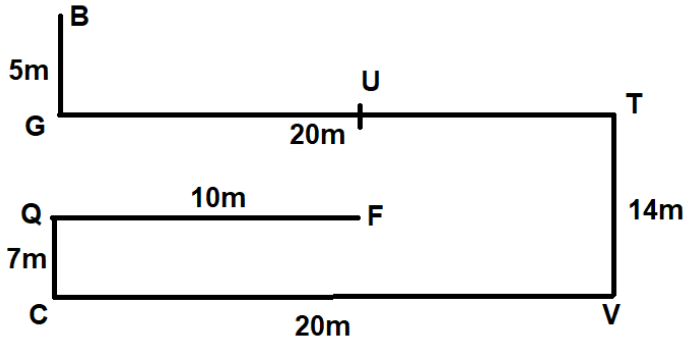
Hence, QC= 7m and TV =14m and GC = TV

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 = √25+100= √125

BU = 5√5

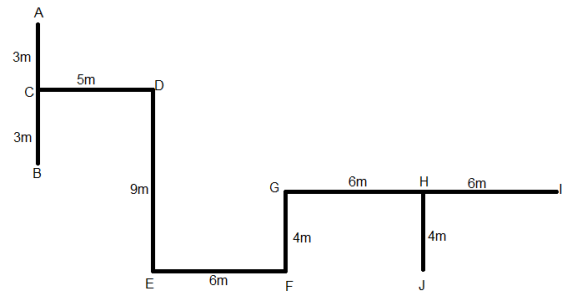
Solution 46

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

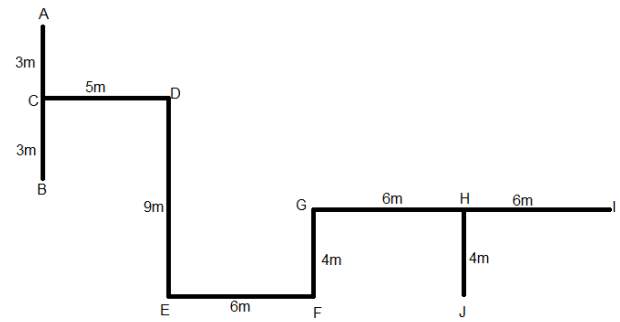
FG+ GX + XI

Distance between (G and X) and (X and I) can be calculated by using Pythagoras theorem:

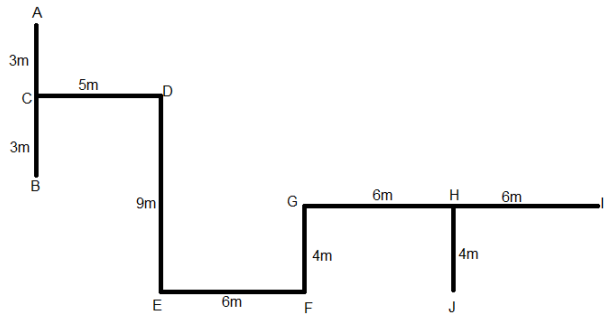
$GX^2 = XI^2 = 64 + 36 = 100m$

GX = XI =10m

Total distance = 4 + 10 + 10 = 24m



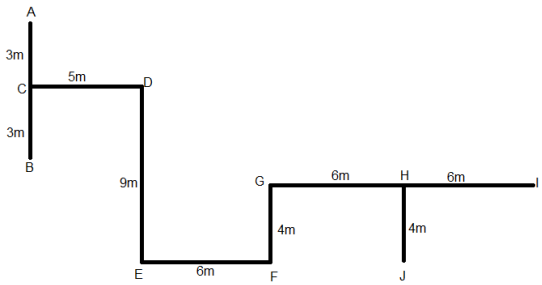
Solution 48



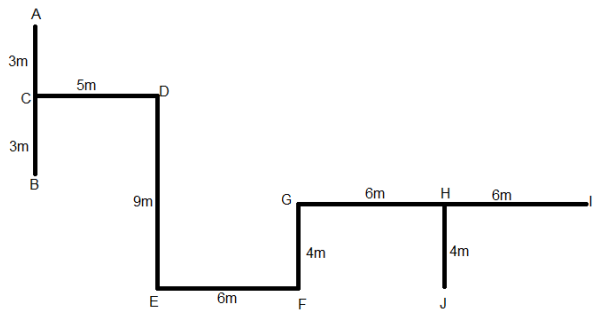
If Vivek moves 17m towards west from H, then he is 8m far from A.

Solution 49

d. North-West



Solution 50



Hence total distance between GF and EF= 10m