PREVIOUS YEAR MEMORY BASED PUZZLES

LIC AAO, ADO, IBPS CLERK, PO, RRB OFFICER SCALE-1, SBI CLERK, PO MAINS [2018-2019]

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LIC AAO mains Memory based Puzzles (held on 28th June2019)

Directions (1-5): Study the following information carefully and answer the below questions.

Seven person namely – A, B, C, D, E, F and G, join the company on different day of week starting from Monday to Sunday. Age of each person is different viz. 19, 21, 23, 27, 32, 36 and 42 years. All the information are not necessary in same order.

The sum of ages of B and the one who joins on Saturday is 53. Sum of ages of the one who joins on Thursday and F is twice the age of B. At least two person joins between E and the one whose age is perfect square. Two person joins between D and the one whose age is 32 years. The one whose age is 27 years joins the company four days before A. Two person joins between F and G. The one whose age is 27 years joins the college just before B. C neither joins on adjacent day of the one whose age is 19 nor his age is perfect cube. A neither joins the company on adjacent day of D nor joins on Sunday.

1. Who joins the company on Wednesday?

- **A.** D
- **B.** F
- **C.** B
- **D.** E
- **E.** None of these

2. How many person joins the company after the one whose age is 21 years?

- **A.** Two
- **B.** Four
- **C.** Five
- **D.** One
- **E.** None

3. What is the difference between the ages of the one who joins on Monday and the one who joins on Friday?

- **A.** 15 years
- **B.** 9 years
- **C.** 6 years
- **D.** 4 years
- **E.** None of these

4. Which of the following statement is not correct?

- **A.** E joins company just before the one whose age is 21 years.
- **B.** A joins two day before the one whose age is 23 years.
- **C.** Three person visits between C and the one whose age is 42 years.
- **D.** D visits just before the one whose age is 19 years.

    E. All the above statements are true.

5. If D is related to 36, similarly G is related to 32, then who among the following person is related to 19?

    A. B
    B. E
    C. C
    D. F
    E. None of these

Directions (1-5):

Solutions:

Case (2)		
Name	Day	Age
E	Mon	27
B	Tue	21
D	Wed	42
G	Thu	19
A	Fri	36
C	Sat	32
F	Sun	23

1. Answer: A

Explanation:

Clearly, D joins the company on Wednesday.

Hence, option A is correct choice.

2. Answer: C

Explanation:

Clearly, only five person joins the company after the one whose age is 21 years.

Hence, option C is correct choice.

3. Answer: B

Explanation:

Clearly, the required difference = (36 – 27) = 9 years.

Hence, option B is correct choice.

4. Answer: C

Explanation:

Clearly, only statement C is not correct.

Hence, option C is correct choice.

5. Answer: A

Explanation:

Clearly, D joins two days before the one whose age is 36 years, similarly G joins two days before the one whose age is 32 years, thus B is related to the one whose age is 19 years.

Hence, option A is correct choice.

Explanation[1-5]:

We have:

- ❖ The sum of ages of B and the one who joins on Saturday is 53, since only such possible combination is (21, 32).
- ❖ Sum of ages of the one who joins on Thursday and F is twice the age of B.
- ❖ Since, age of B is either 21 years or 32 years, thus only such combination is (19, 23, 21), that means age of B must be 21 years and ages of the one who joins on Saturday is 32 years.
- ❖ That means, we have two possible cases, in case (1) age of F must be 19 years, in case (2) age of F is 23 years.
- ❖ Two person joins between D and the one whose age is 32 years, that means D joins the company on Wednesday.

Based on above given information we have:

Case (1)			Case (2)		
Name	Day	Age	Name	Day	Age
	Mon			Mon	
	Tue			Tue	
D	Wed		D	Wed	
	Thu	23		Thu	19
	Fri			Fri	
	Sat	32		Sat	32
	Sun			Sun	

Again, we have:

- ❖ A neither joins the company on adjacent day of D nor joins on Sunday.
- ❖ The one whose age is 27 years joins the company four days before A.
- ❖ The one whose age is 27 years joins the college just before B, that means in case (1) & case (2) A joins on Friday and B joins on Tuesday.
- ❖ Two person joins between F and G.
- ❖ As, in case (1) age of F is 19 years, in case (2) age of F is 23 years, thus in case (1) & case (2) F joins on Sunday.
- ❖ C neither joins on adjacent day of the one whose age is 19 nor his age is perfect cube, that means in case (2) C's age is 32 years and joins on Friday, case (1) is not valid.

Based on above given information we have:

Case (1)			Case (2)		
Name	Day	Age	Name	Day	Age
	Mon	27		Mon	27
B	Tue	21	B	Tue	21
D	Wed		D	Wed	
G	Thu	23	G	Thu	19
A	Fri		A	Fri	
	Sat	32	C	Sat	32
F	Sun	19	F	Sun	23

Case (1) is not valid as C neither joins on adjacent day of the one whose age is 19 nor his age is perfect cube.

Again, we have:

- ❖ At least two person joins between E and the one whose age is perfect square, that means age of A is 36 years.

Based on above given information we have final arrangement as follow:

Case (2)		
Name	Day	Age
E	Mon	27
B	Tue	21
D	Wed	42
G	Thu	19
A	Fri	36
C	Sat	32
F	Sun	23

IBPS CLERK MAINS Memory based Puzzle– (held on 20th January 2019)

Directions (6-9): **Study the following information carefully and answer the below questions**.

Six boxes A, B, C, D, E and F are placed in a stack one above other. Each box contains different number of chocolates 40, 60, 80, 90, 100 and 120 but not necessarily in the same order.

Box which has 40 chocolates is just below the box which has 120 chocolates. One box placed between box E and the box which have 120 chocolates. F contains 100 chocolates. One box is placed between box B and the box which have 90 chocolates. Box C is placed immediately below box A. Three boxes placed between C and the box which contains 40 chocolates. The box which contains 60 chocolates is placed below box F.

Three boxes placed between box D and the box which have 60 chocolates.

6. How many boxes are placed between box D and box C?

    A. 1
    B. 2
    C. 3
    D. 0
    E. More than 3

7. Which box is placed just above box which has 120 chocolates?

    A. D
    B. E
    C. F
    D. A
    E. None

8. What is the total number of chocolates of box A and box B?

    A. 200
    B. 180
    C. 100
    D. 140

    E. 240

9. Which box is placed at bottom of the stack?

    A. C
    B. A
    C. B
    D. D
    E. F

Directions (6-9):

Solution:

Box	Chocolates
B	120
D	40
E	90
F	100
A	80
C	60

6. Answer: C

7. Answer: E

8. Answer: A

9. Answer: A

Explanation:

- ❖ Box C is placed immediately below box A.
- ❖ Three boxes placed between C and the box which contains 40 chocolates.
- ❖ Box which has 40 chocolates is just below the box which has 120 chocolates.

Memory Based Puzzle Asked in Banks Exams

Case 1			Case 2	
Box	Chocolates		Box	Chocolates
	120		A	
	40		C	
A				120
C				40

❖ One box placed between box E and the box which have 120 chocolates.

Case 1			Case 2	
Box	Chocolates		Box	Chocolates
	120		A	
	40		C	
E			E	
A				120
C				40

❖ F contains 100 chocolates.

Case 1			Case 2	
Box	Chocolates		Box	Chocolates
	120		A	
	40		C	
E			E	
F	100		F	100
A				120
C				40

❖ One box is placed between box B and the box which have 90 chocolates.

Memory Based Puzzle Asked in Banks Exams

	Case 1		Case 2	
Box	**Chocolates**	**Box**	**Chocolates**	
B	120	A		
	40	C		
E	90	E	90	
F	100	F	100	
A		B	120	
C			40	

❖ The box which contains 60 chocolates is placed below box F. Three boxes placed between box D and the box which have 60 chocolates. Case 1 is the final arrangement.

	Case 1		Case 2	
Box	**Chocolates**	**Box**	**Chocolates**	
B	120	A		
D	40	C		
E	90	E	❌ 90	
F	100	F	100	
A	80	B	120	
C	60		40	

IBPS PO MAINS Memory based 2018 – (held on 18th November 2018)

Directions (10-15): Study the following information to answer the given questions:

Six persons are born in six different years. Their ages are calculated with respect to 2018. None of them is More than 90 years old. They like six different fruits Cherry, Orange, Apple, Mango, Banana and Grapes but not necessarily in the same order.

Memory Based Puzzle Asked in Banks Exams

Note: If the person age is considered as last two digits of the person Birth year, then it will be at any sequence. For example, X age is considered as last two digit of Y birth year-1936, and then X age is either 36 or 63.

Tarun was born in 1983.The difference between age of Tarun and the one who like cherry is 21 years. Visakha age was sum of all the digits of birth year of the one who like cherry. The one who like Mango is 5 years elder than Visakha. Only one person born was before Arko. Arko age was equal to the last two digit of the Birth year of the one who like Mango. The difference between Ages of Arko and Viraj was 24years.The one who likes Banana born immediately before the one who like Grapes. The age of the one who like Apple was not an even Number. Manika was elder than Charu.

10. Who among the following person like Orange?

A. None of those given as options
B. The one who was 56 years old
C. The one who like Banana
D. Charu
E. The one who was born on 2000

11. What is the age of the one who like Grapes and the one who like Apple respectively?

A. 7, 31
B. 70, 46
C. 35, 59
D. None of those given as options
E. 59, 35

12. Which of the following is Correct?

A. Visakha is the second youngest person
B. None of the given options are correct
C. Arko is Younger than Manika
D. The one who like Mango and the one who like Banana are born in odd number year
E. Arko was born on 2011

13. What will be the sum of ages of the youngest and the eldest person in the group?

A. 101 years
B. 77 years
C. 111 years
D. 97 years
E. None of those given as options

14. Which of the following statement(s) is/are true?

I. Two persons were born between the one like Cherry and the one who like Orange

II.   The Number of person born before Manika was same as the number of person born after Tarun

III.   The Sum of digits of Birth year of Viraj is not equal to Visakha age

   A. Only (I)
   B. Only (II) Only (III)
   C. All (I), (II) and (III)
   D. Only (I) and (II)
   E. Only (III)

15. Arko like which of the following Fruits?

   A. Orange
   B. Grapes
   C. None of those given as options
   D. Cherry
   E. Banana

Directions (10-15):

Solution:

TM

Person	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

10. Answer: E

11. Answer: E

12. Answer: D

13. Answer: A

14. Answer: D

15. Answer: B

Explanation [10-15]:

❖   Tarun was born in 1983.

Memory Based Puzzle Asked in Banks Exams

Person	Birth Year	Age	Fruits
Tarun	1983	35	

❖ The difference between age of Tarun and the one who like cherry is 21 years.

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	1962	56	Cherry

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	2004	14	Cherry

❖ Visakha age was sum of all the digits of birth year of the one who like cherry.

Case 1

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	1962	56	Cherry
Visakha	2000	18	

Case 2

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	2004	14	Cherry
Visakha	2012	06	

❖ The one who like Mango is 5 years elder than Visakha.

Memory Based Puzzle Asked in Banks Exams

Case 1

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	1962	56	Cherry
Visakha	2000	18	
	1995	23	Mango

Case 2

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	2004	14	Cherry
Visakha	2012	06	
	2007	11	Mango

❖ Arko age was equal to the last two digit of the Birth year of the one who like Mango.

Case 1

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	1962	56	Cherry
Visakha	2000	18	
	1995	23	Mango
Arko	1959	59	

Case 2a

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	2004	14	Cherry
Visakha	2012	06	
	2007	11	Mango
Arko	2011	07	

❖ The difference between Ages of Arko and Viraj was 24years.

Case 1

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	1962	56	Cherry
Visakha	2000	18	
	1995	23	Mango
Arko	1959	59	
Viraj	1935	83	

Case 2a

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	2004	14	Cherry
Visakha	2012	06	
	2007	11	Mango
Arko	2011	07	
Viraj	1987	31	

Memory Based Puzzle Asked in Banks Exams

Case 2b

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	2004	14	Cherry
Visakha	2012	06	
	2007	11	Mango
Arko	1948	70	

❖ Only one person were born before Arko. From this statement case 2a and case 2b is eliminated.

❖ The one who like Banana born immediately before the one who like Grapes.

Case 1

Person	Birth Year	Age	Fruits
Tarun	1983	35	
	1962	56	Cherry
Visakha	2000	18	
	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

❖ The age of the one who like Apple was not an even Number. Manika was elder than Charu.

Person	Birth Year	Age	Fruits
Tarun	1983	35	Apple
Manika	1962	56	Cherry
Visakha	2000	18	Orange
Charu	1995	23	Mango
Arko	1959	59	Grapes
Viraj	1935	83	Banana

Memory Based Puzzle Asked in Banks Exams

IBPS RRB Officer Scale 1 – Mains (Held on 22nd September 2018)

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

Seven Person, A, B, C, D, E, F and G are born in seven different years 1950, 1953, 1961, 1968, 1972, 1985 and 1996. They like different Fruits Mango, Banana, Guava, Pomegranate, Litchi, Apple and Fig.

Note: All the information is not necessarily in the same order. They are all born on same month and same date but different year. Their ages are calculated on base year of 2018. The Sum of ages of B and E is 90 years. B is elder than E. The difference between E and The one like fig is 11 years. The one who like Pomegranate is younger to two people. The sum of ages of the one who likes Pomegranate and G is 103 years. The one who like Banana is younger than G. The number of person younger than the one who like Banana is as same number of person elder than the one who like Mango. The sum of ages of A and D is 115 years. A is Younger than D. The difference between ages of A and the one who likes Guava is 15 years. F is elder than C. The one who like Litchi is elder than the one who likes apple.

16. Which of the following is true?

  i.   F is younger than D
 ii.   C like Apple
iii.   E is the youngest person
     A. Only (i) and (ii)
     B. Only (ii)
     C. Only (iii)
     D. Only (i) and (iii)
     E. All (i), (ii) and (iii)

17. Who among them like Pomegranate?

     A. E
     B. F
     C. A
     D. D
     E. None of those given as option

18. How many people Younger than G?

     A. One
     B. Two
     C. Three
     D. More than Three
     E. None

19 In a certain way B is related to D, and F is related to A, in the same way C is related to who among the following person?

    A. The one like Mango
    B. The one like Apple
    C. The one like Litchi
    D. The one like Guava
    E. The one like Banana

20. Who was born just before G?

    A. The one like Pomegranate
    B. The one who like Fig
    C. B
    D. The one who like Litchi
    E. D

Directions (16-20):

Solution:

Year	Age	Fruits	Person
1950	68	Mango	B
1953	65	Guava	D
1961	57	Pomegranate	F
1968	50	Litchi	A
1972	46	Apple	G
1985	33	Fig	C
1996	22	Banana	E

16. Answer: D

17. Answer: B

18. Answer: B

19. Answer: E

20. Answer: D

Explanation [16-20]:

    ❖ 1950 – 68 years
    ❖ 1953 – 65 years

Memory Based Puzzle Asked in Banks Exams

- ❖ 1961 – 57 years
- ❖ 1968 – 50 years
- ❖ 1972 – 46 years
- ❖ 1985 – 33 years
- ❖ 1996 – 22 years
- ❖ The Sum of ages of B and E is 90 years.
- ❖ B is elder than E. We have two possible cases,

Case 1

Year	Age	Fruits	Person
1950	68		B
1953	65		
1961	57		
1968	50		
1972	46		
1985	33		
1996	22		E

Case 1

Year	Age	Fruits	Person
1950	68		B
1953	65		
1961	57		
1968	50		
1972	46		
1985	33		
1996	22		E

- ❖ The difference between E and the one like fig is 11years.

Case 1

Year	Age	Fruits	Person
1950	68		B
1953	65		
1961	57		
1968	50		
1972	46		
1985	33	Fig	
1996	22		E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65		
1961	57		B
1968	50		
1972	46		
1985	33		E
1996	22	Fig	

- ❖ The one who like Pomegranate is younger to two people.

Case 1

Year	Age	Fruits	Person
1950	68		B
1953	65		
1961	57	Pomegranate	
1968	50		
1972	46		
1985	33	Fig	
1996	22		E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65		
1961	57	Pomegranate	B
1968	50		
1972	46		
1985	33		E
1996	22	Fig	

❖ The sum of ages of the one who likes Pomegranate and G is 103 years.

Case 1

Year	Age	Fruits	Person
1950	68		B
1953	65		
1961	57	Pomegranate	
1968	50		
1972	46		G
1985	33	Fig	
1996	22		E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65		
1961	57	Pomegranate	B
1968	50		
1972	46		G
1985	33		E
1996	22	Fig	

❖ The one who like Banana is younger than G.

Case 1

Year	Age	Fruits	Person
1950	68		B
1953	65		
1961	57	Pomegranate	
1968	50		
1972	46		G
1985	33	Fig	
1996	22	Banana	E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65		
1961	57	Pomegranate	B
1968	50		
1972	46		G
1985	33	Banana	E
1996	22	Fig	

❖ The number of person younger than the one who like Banana is as same number of person elder than the one who like Mango.

Memory Based Puzzle Asked in Banks Exams

Case 1

Year	Age	Fruits	Person
1950	68	Mango	B
1953	65		
1961	57	Pomegranate	
1968	50		
1972	46		G
1985	33	Fig	
1996	22	Banana	E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65	Mango	
1961	57	Pomegranate	B
1968	50		
1972	46		G
1985	33	Banana	E
1996	22	Fig	

❖ The sum of ages of A and D is 115 years.
❖ A is Younger than D.

Case 1

Year	Age	Fruits	Person
1950	68	Mango	B
1953	65		D
1961	57	Pomegranate	
1968	50		A
1972	46		G
1985	33	Fig	
1996	22	Banana	E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65	Mango	D
1961	57	Pomegranate	B
1968	50		A
1972	46		G
1985	33	Banana	E
1996	22	Fig	

❖ The difference between ages of A and the one who likes Guava is 15 years.

Case 1

Year	Age	Fruits	Person
1950	68	Mango	B
1953	65		D
1961	57	Pomegranate	
1968	50		A
1972	46		G
1985	33	Fig	
1996	22	Banana	E

Case 2

Year	Age	Fruits	Person
1950	68		
1953	65	Mango	D
1961	57	Pomegranate	B
1968	50		A
1972	46		G
1985	33	Banana	E
1996	22	Fig	

❖ F is elder than C.

Memory Based Puzzle Asked in Banks Exams

Case 1

Year	Age	Fruits	Person
1950	68	Mango	B
1953	65	Guava	D
1961	57	Pomegranate	F
1968	50		A
1972	46		G
1985	33	Fig	C
1996	22	Banana	E

❖ The one who like Litchi is elder than the one who likes apple. SO the final arrangement is

Case 1

Year	Age	Fruits	Person
1950	68	Mango	B
1953	65	Guava	D
1961	57	Pomegranate	F
1968	50	Litchi	A
1972	46	Apple	G
1985	33	Fig	C
1996	22	Banana	E

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

Seven people – M, L, J, I, K, O and Y are studying in three different classes, Class 9, Class 10 and Class 8. Not more than three people Studying in the same class. They secure different marks in English viz., 5, 16, 19, 20, 24, 36 and 57 but not necessarily in the same order. The persons who are studying in 8th class secure only even numbered marks and the persons who are studying in 10th class secure only Odd numbered marks.

The marks secured by class 9 students are more than that of the marks secured by class 10 students. M Secured less than 30 marks and studies with Y. The sum of marks secure by K and Y is more than 90 marks. Only O and L studying in class 10. O secured more marks than L. M and J are studying in different class. M secure more marks than I. M and K studying in different class. J and I secure a mark which is a multiple of 4.

I and Y are studying in the same class. M is junior to K. The mark scored by J is not a multiple of 5.

21 What will be the mark secured by O?

   A. 5

B. 19

C. None of these

D. 16

E. 24

22. **What will be the sum of marks secured by J and Y?**

A. 52

B. 56

C. 60

D. None of these

E. 48

23. **Who among them are studying in class 9?**

A. Y and O

B. K and M

C. J and K

D. I and Y

E. Both (c) and (D)

24. **What will be the difference between the marks secured by J and L?**

A. 19

B. 21

C. 29

D. None of these

E. 24

25. **How many persons secured more marks than J?**

A. One

B. Two

C. Three

D. None

E. More than three

Directions (21-25):

Solution:

Memory Based Puzzle Asked in Banks Exams

Persons	Class	Marks
M	8	20
L	10	5
J	9	24
I	8	16
K	9	57
O	10	19
Y	8	36

Answers:

21. Answer: B

22. Answer: C

23. Answer: C

24. Answer: A

25. Answer: B

Explanation [21-25]:

Note: They secure different marks in English viz., 5, 16, 19, 20, 24, 36 and 57.The persons who is studying in 8th class secure only even number marks and the person who study 10th class secure only Odd number marks.

- ❖ The sum of marks secure by K and Y is more than 90 marks.(K/Y=57/36)
- ❖ And L only studying in class 10. (O and L secure = 5/19 marks)
- ❖ Secure more marks than L. So O secure 19 marks and L secure 5 marks.
- ❖ M Secured less than 30 marks and studies with Y. M secure more marks than I. So M secure either 20 or 24.

Persons	Class	Marks
M		20/24
L	10	5
J		
I		
K		36/57
O	10	19

- ❖ M and J studying in different class.
- ❖ I and Y studying in the same class.
- ❖ M and K studying in different class.
- ❖ M is junior to K.
- ❖ From this J and K studying in class 9.
- ❖ M, I and Y are studying in class 8.
- ❖ The mark scored by J is not a multiple of 5.
- ❖ J and I secure a mark which is a multiple of 4.

So the final arrangement becomes

Persons	Class	Marks
M	8	20
L	10	5
J	9	24
I	8	16
K	9	57
O	10	19
Y	8	36

26. Study the following information carefully and answer the questions.

- **A.** A & B → A is 15 m to the north of B
- **B.** A @ B → A is 23 m to the east of B
- **C.** A # B → A is 20 m to the south of B
- **D.** A % B→ A is 12 m to the west of B
- **E.** If P % Q # R & S @ T # U,

If Point X is 5m to the south of T, then what is the distance between Point X and Point P?

- **A.** 15m
- **B.** 23m
- **C.** 11m
- **D.** 6m
- **E.** None of those given as option

26. Answer: C

Solution:
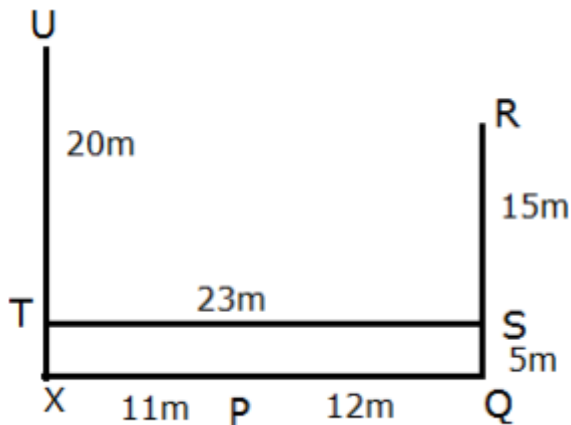
Direction (27-28): Study the following information carefully and answer the questions

Clubs (♣), diamonds (♦), hearts (♥) and spades (♠)

A 5 ♥B means A is 5m to the North of B

A 7 ♣B means A is 7m to the South of B

A 10♠B means A is 10m to the East of B

A 13♦B means A is 13m to the West of B

There are 3 buses travelling from Z to Y.

Bus 1: K 16♦ Z, J 10♣ K, M 9♦ J, D 18♥ M, C 29♠ D, P 9♥ C, Y 4♦ P

Bus 2: E 35♣ Z, F 6♦ E, G 13♥ F, H 19♦G, L 39♥ H, Y 25♠ L

Bus 3: N 32♠Z, Q 4♥ N, S 8♦ Q, T 4♥ S, C 20♦ T, U 4♦ C, U 4♣V, Y 5♥ V

27. What is the distance between D and T?

    A. 39m
    B. 49m
    C. 50m
    D. 25m
    E. None of those given as option

28. What is the distance and direction of E with respect to V?

    A. 47m, South
    B. 37m, South
    C. 25m, North
    D. 45m, East
    E. None of those given as option

Soluetion:
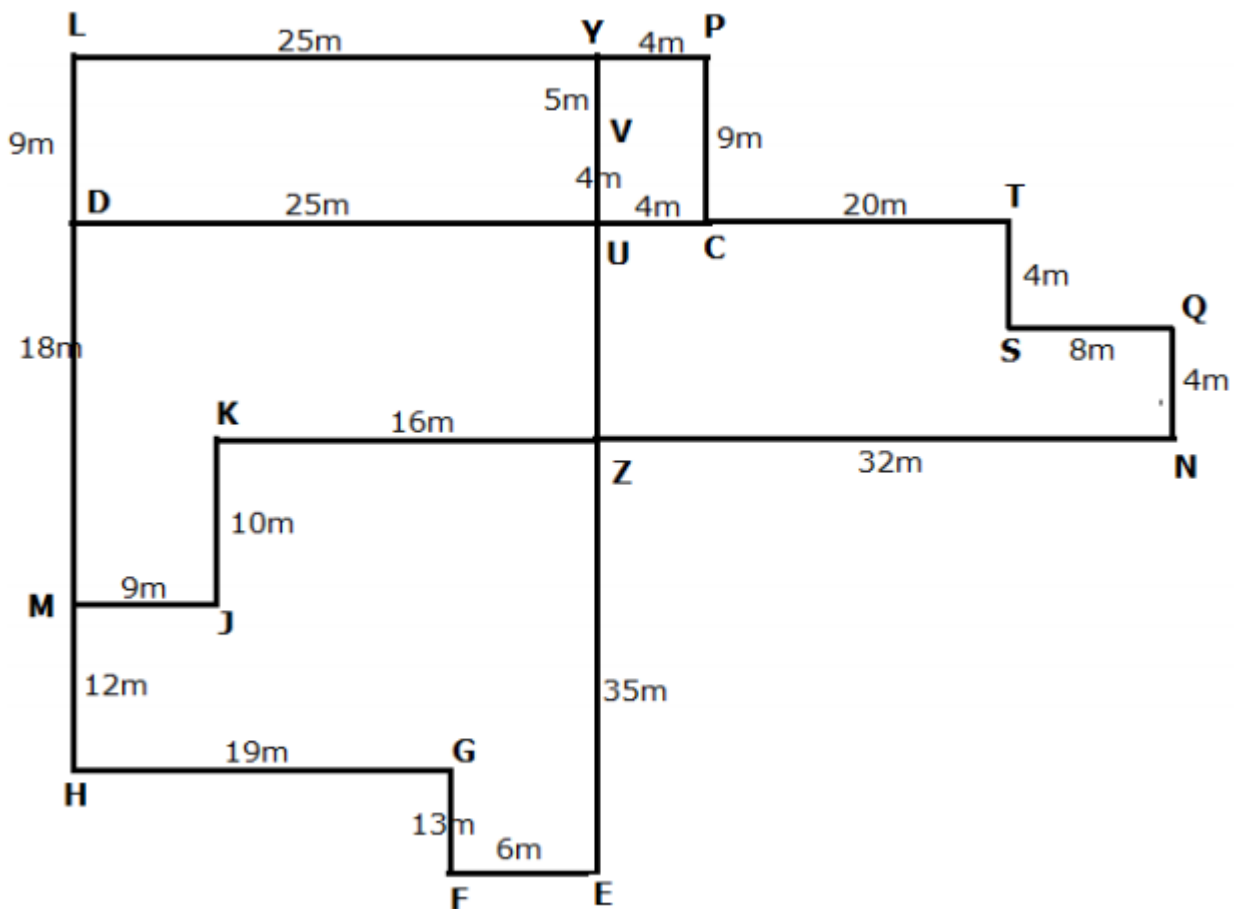
27. Answer: B

28. Answer: A

Note: One puzzle was asked based on boxes arranged in three stacks 1, 2, 3 from left to right. Each stack has shelves with total height of each stack is 330cm. The heights of box also need to calcul

Direction: [29 – 33] Study the following information carefully and answer the given questions.

Memory Based Puzzle Asked in Banks Exams

Eight Persons A, B, C, D, P, Q, R and S are purchasing cars on three different months January, April and August on three different year 1963, 1965 and 1968 but not necessarily in the same order. No two persons were purchased a car on same month of the same year.

A purchase a car in a month which has 30 days but not on odd numbered year. A's brother purchases a carimmediately next to A but not on January. Only two persons were purchased a car on a same year in whichA's brother purchased. Two persons are purchased a car between B and A's brother. B's Sister purchased acar immediately before B. Number of person purchased a car before B's sister is same as number of person purchased a car after D's Husband. Only one person was purchased a car between B's wife and B'sister. D is married to C. R and Q are siblings and purchased a car on same Year. R was purchased a car before Q. Q's

Uncle purchased a car immediately before R. Q is the granddaughter of S.

29. **If A is married Z then how Z is related to S?**

   A. Son in law
   B. Daughter in law
   C. Son
   D. Mother
   E. Can't be determined

30. **What is the relationship between C and B?**

   A. C is the wife of B
   B. B is the brother in law of C
   C. C is the cousin of B
   D. B is granddaughter of C
   E. None of those given as option

31. **Which of the following option is correct regarding P's Purchasing month and Year?**

   A. August – 1968
   B. April – 1963
   C. January – 1993
   D. April – 1968
   E. August - 1993

32. **As many person purchased car before Q is _____ more than after B's Wife?**

   A. Two
   B. One
   C. Three
   D. Four
   E. None of those given as option

33. Which of the following is correct?

A. C and S are siblings
B. P is uncle of R
C. Only one person purchased a car before Q's grand fathe
D. Only (A) and (B) b) Only (A) c) Only (B) and (C) d) Only (C)
E. e) All are incorrect

Direction (29 - 33):

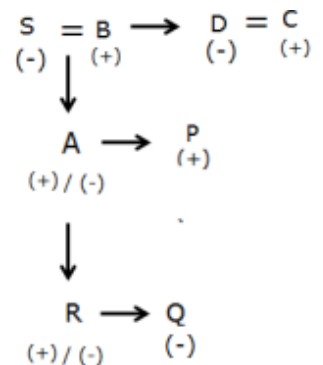29. Answer: E

30 .Answer: B

31. Answer: A

32. Answer: B

33. Answer: C

Explanation:

Year/Months	January(31)	April(30)	August(31)
1963	D	B	S
1968	XXXXXXXXXXX	A	P
1993	R	Q	C

```
S  = B  →  D = C
(-) |  (+)     (-)   (+)
    ↓
    A  →   P
(+)/(-)     (+)

    ↓

    R  →  Q
(+)/(-)    (-)
```

Year/Months	January(31)	April(30)	August(31)
1963			
1968		A	
1993			

❖ A' brother purchases a car immediately next to A but not on January.
❖ Only two persons were purchased a car on a same year in which A's brother purchased.

Memory Based Puzzle Asked in Banks Exams

Case 1

Year/Months	January(31)	April(30)	August(31)
1963			
1968	XXXXXXXXXXX	A	A's Brother
1993			

Case 2

Year/Months	January(31)	April(30)	August(31)
1963			
1968		A	XXXXXXXXXX
1993	A's Brother		

❖ Two persons are purchased a car between B and A's brother.

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963		B	
1968	XXXXXXXXXXX	A	A's Brother
1993			

Case 1B

Year/Months	January(31)	April(30)	August(31)
1963			
1968	XXXXXXXXXXX	A	A's Brother
1993			B

Memory Based Puzzle Asked in Banks Exams

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963	B's Sister	B	
1968	XXXXXXXXXXX	A	A's Brother
1993			

Case 1B

Year/Months	January(31)	April(30)	August(31)
1963			
1968	XXXXXXXXXXX	A	A's Brother
1993		B's Sister	B

❖ Number of person purchased a car before B's sister is same as number of person purchased a car after D's Husband.

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963	B's Sister	B	
1968	XXXXXXXXXXX	A	A's Brother
1993			D's Husband

Memory Based Puzzle Asked in Banks Exams

Case 1B

Year/Months	January(31)	April(30)	August(31)
1963		D's Husband	
1968	XXXXXXXXXXX	A	A's Brother
1993		B's Sister	B

❖ Only one person was purchased a car between B's wife and B's sister. we cannot fix the position of B's wife in case 1B, so this case is eliminated.

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963	B's Sister	B	B's Wife
1968	XXXXXXXXXXX	A	A's Brother
1993			D's Husband

Case 1B

Year/Months	January(31)	April(30)	August(31)
1963		D's Husband	
1968	XXXXXXXXXXX	A	A's Brother
1993		B's Sister	B

❖ D is married to C.

Memory Based Puzzle Asked in Banks Exams

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963	B's Sister	B	(B's Wife)
1968	XXXXXXXXXXX	A	A's Brother
1993			C (D's Husband)

- ❖ R and Q are siblings and purchased a car on same Year.
- ❖ R was purchased a car before Q.
- ❖ Q's Uncle purchased a car immediately before R.

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963	B's Sister	B	(B's Wife)
1968	XXXXXXXXXXX	A	A's Brother also Q's Uncle
1993	R	Q	C (D's Husband)

A → ‾‾
(+)
Q's uncle
↓
R → Q

= B → ‾‾
(-)   (+)   (-)
B's Sister
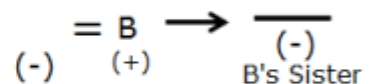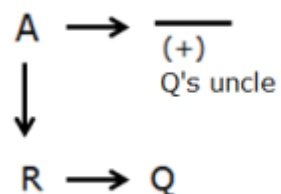
- ❖ Q is the granddaughter of S and also we can fix the position of D as B's sister

Memory Based Puzzle Asked in Banks Exams

Case 1A

Year/Months	January(31)	April(30)	August(31)
1963	D (B's Sister)	B	S(B's Wife)
1968	XXXXXXXXXXX	A	P (A's Brother also Q's Uncle)
1993	R	Q	C (D's Husband)

$$S \underset{(-)}{} = B \underset{(+)}{} \longrightarrow D \underset{(-)}{} = C \underset{(+)}{}$$

$$\downarrow$$

$$A \underset{(+)/(-)}{} \longrightarrow P \underset{(+)}{}$$

$$\downarrow$$

$$R \underset{(+)/(-)}{} \longrightarrow Q \underset{(-)}{}$$
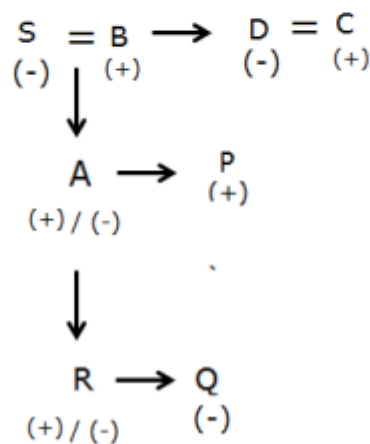
Directions (34-39): Study the following information carefully and answer the below questions.

Six persons S, D, H, L, E and V are from six different cities Mumbai, Chennai, Kolkata, Delhi, Bangalore, and Kochi but not necessarily in the same order. They are attend a meeting on six different days of the week starting from Monday to Saturday.

Two persons are attend a meeting between H and the one who is from Mumbai. Only one person atten between the one who is from Mumbai and the one who is from Delhi. Three persons are attend between L and the one who is from Delhi. L attend after H. S is from Kochi and only one person attend the meeting between S and E.D attend one of the day before E but not from Delhi. The one who is from Chennai not attend the meeting on Second day. Two person attend the meeting between the one who is from Chennai and the one who is from Kolkata many attend

34. If all the persons are attend the meeting in alphabetical order starting from Monday, then how the meeting on same day?

    A. One
    B. Two
    C. Three
    D. More than three
    E. None

35. **As many person attend the meeting before S is same as after _____?**

    A. E
    B. V
    C. L
    D. H
    E. D

36. **Who attend the meeting immediately before the one who is from Kochi?**

    A. The One who is from Bangalore
    B. The One who is from Kolkata
    C. D
    D. The One who is from Chennai
    E. V

37. **Which of the following statement is incorrect?**

    I. H and L are attend the meeting on consecutive days.
    II. The one who is from Delhi attend the meeting immediately before S.
    III. Three Person Attend the meeting between the one who is from Kolkata and the one who is from Delhi
    A. Only (B) and (C)
    B. Only(A)
    C. Only (A) and (C)
    D. Only (B)
    E. All are incorrect

38. **If X attend the meeting immediately after V, then which of the following statement is true?**

    A. Three Person Attend the meeting between the one who is from Bangalore and X
    B. X attends the meeting on Wednesday.
    C. The one who is from Mumbai and X are attend the meeting on same day
    D. There is one day gap between X and the one who is from Chennai
    E. Both (b) and (d)

Directions (34-39):

Solution:

Memory Based Puzzle Asked in Banks Exams

Days	Persons	Cities
Monday	H	Bangalore
Tuesday	L	Kolkata
Wednesday	S	Kochi
Thursday	D	Mumbai
Friday	E	Chennai
Saturday	V	Delhi

34. Answer: A

35. Answer: E

36. Answer: B

37. Answer: D

38. Answer: D

Explanation:

❖ Two persons are attend a meeting between H and the one who is from Mumbai

Case 1

Persons	Cities
H	
	Mumbai

Case 2

Persons	Cities
	Mumbai
H	

❖ Only one person attend between the one who is from Mumbai and the one who is from Delhi

Case 1a

Persons	Cities
H	
	Delhi
	Mumbai

Case 1b

Persons	Cities
H	
	Mumbai
	Delhi

Case 2a

Persons	Cities
	Mumbai
	Delhi
H	

Case 2b

Persons	Cities
	Delhi
	Mumbai
H	

.

- ❖ Three persons are attend between L and the one who is from Delhi.
- ❖ L attend after H. In case 2a L attends in seventh day, So this case is eliminated. In case 2b L attend before H, So this case is also eliminated

Case 1a

Persons	Cities
H	
	Delhi
	Mumbai
L	

Case 1b

Persons	Cities
H	
L	
	Mumbai
	Delhi

Memory Based Puzzle Asked in Banks Exams

Case 2a

Persons	Cities
	Mumbai
	Delhi
H	✕

Case 2b

Persons	Cities
	Delhi
	✕ Mumbai
L	
H	

- ❖ S is from Kochi and only one person attend the meeting between S and E.
- ❖ D attend one of the day before E but not from Delhi. V attend after D. Case 1a is eliminated because V attend before D

Case 1a

Days	Persons	Cities
Monday	H	
Tuesday	V	Delhi
Wednesday	S	✕ Kochi
Thursday	D	Mumbai
Friday	E	
Saturday	L	

Case 1b

Days	Persons	Cities
Monday	H	
Tuesday	L	
Wednesday	S	Kochi
Thursday	D	Mumbai
Friday	E	
Saturday	V	Delhi

- ❖ The one who is from Chennai not attend the meeting on Second day.
- ❖ Two person attend the meeting between the one who is from Chennai and the one who is from Kolkata. So the final arrangement becomes,

Memory Based Puzzle Asked in Banks Exams

Case 1b

Days	Persons	Cities
Monday	H	Bangalore
Tuesday	L	Kolkata
Wednesday	S	Kochi
Thursday	D	Mumbai
Friday	E	Chennai
Saturday	V	Delhi

Directions (39-43): Study the following information carefully and answer the below questions.

Six different color boxes are placed one over another in a stack. Each box has different number of fruits. Only one box is placed between Yellow color box and the box which has 44 fruits which is not adjacent to pink color box. Black color box is placed adjacent to the box which has 44 fruits. Three boxes are placed between Pink and Orange color box and none of these boxes are adjacent to black color box. Pink color box is placed above the orange color box. Two boxes are placed between Orange color box and the box which has 22 fruits. There is only one box is placed between the box which has 22 fruits and the box which has 18 fruits more than that. Brown color box is not placed below the yellow color box. The box which has 26 fruits is placed immediately above the green color box. The box which has 35 fruits is placed above the box which has 52 fruits.

39. Which of the given box has highest number of fruits?

- **A.** Brown
- **B.** Black
- **C.** Orange
- **D.** Yellow
- **E.** Pink

40. Number of boxes are placed between Green and Yellow color box is _____?

- **A.** Same as between Orange and Pink color box
- **B.** One less than between Brown and Yellow color box
- **C.** Two More than between the box which has 40 fruits and the box which has 44 fruits
- **D.** Same as between the box which has 35 fruits and the box which has 26 fruits
- **E.** Both (c) or (d)

41. What is the sum of number of fruits of Pink and Green color box?

- **A.** 89

B. 66

C. 79

D. 87

E. None of those given as option

42. If all the boxes are arranged in ascending order of their fruits which it have from top to bottom, then how many boxes are remains its same position?

A. One

B. Two

C. Three

D. More than Three

E. Non

43. Which of the box is placed immediately above the box which has least number of fruits?

A. The box has 40 fruits

B. Pink

C. The box has 52 fruits

D. Orange

E. None of those given as option

Directions (39-43):

Solution:

Box	Fruits
Brown	40
Pink	35
Yellow	22
Black	26
Green	44
Orange	52

39. Answer: C

40. Answer: E

42. Answer: C

42. Answer: B

43. Answer: B

Explanation:

❖ Only one box is placed between Yellow color box and the box which has 44 fruits which isnot adjacent to pink color box.

Case 1

Box	Fruits
Yellow	
	44

Case 2

Box	Fruits
	44
Yellow	

❖ Black color box is placed adjacent to the box which has 44 fruits.

Case 1a

Box	Fruits
Yellow	
Black	
	44

Case 1b

Box	Fruits
Yellow	
	44
Black	

Case 2a

Box	Fruits
	44
Black	
Yellow	

Case 2b

Box	Fruits
Black	
	44
Yellow	

- ❖ Three boxes are placed between Pink and Orange color box and none of these boxes are adjacentto black color box.
- ❖ Pink color box is placed above the orange color box.

Case 2a

Box	Fruits
Pink	
	44
Black	
Yellow	
Orange	

Case 2b

Box	Fruits
Pink	
Black	
	44
Orange	
Yellow	

Case 1a

Box	Fruits
Pink	
Yellow	
Black	
	44
Orange	

Case 1b

Box	Fruits
Yellow	
Pink	
	44
Black	
Orange	

- ❖ The box which has 44 fruits which is not adjacent to pink color box. Case 2a and Case 1b are eliminated.

Case 1a

Box	Fruits
Pink	
Yellow	
Black	
	44
Orange	

Case 1b

Box	Fruits
Yellow	
Pink	✗
	44
Black	
Orange	

Case 2a

Box	Fruits
Pink	
	44
Black	✗
Yellow	
Orange	

Case 2b

Box	Fruits
Pink	
Black	
	44
Orange	
Yellow	

❖ Two boxes are placed between Orange color box and the box which has 22 fruits.

Case 1a

Box	Fruits
Pink	
Yellow	22
Black	
	44
Orange	

Case 2b

Box	Fruits
Pink	
	22
Black	
	44
Orange	
Yellow	

❖ There is only one box is placed between the box which has 22 fruits and the box which has 18 fruits more than that.

Case 1a

Box	Fruits
	40
Pink	
Yellow	22
Black	
	44
Orange	

Case 2b

Box	Fruits
Pink	
	22
Black	
	44
Orange	
Yellow	

❖ Brown color box is not placed below the yellow color box.

Case 1a

Box	Fruits
Brown	40
Pink	
Yellow	22
Black	
	44
Orange	

❖ The box which has 26 fruits is placed immediately above the green color box.

Memory Based Puzzle Asked in Banks Exams

Case 1a

Box	Fruits
Brown	40
Pink	
Yellow	22
Black	26
Green	44
Orange	

❖ The box which has 35 fruits is placed above the box which has 52 fruits.so the final arrangements becomes

Case 1a

Box	Fruits
Brown	40
Pink	35
Yellow	22
Black	26
Green	44
Orange	52

TM

Directions (44-47): Study the following information carefully and answer the below questions.

A * B (30) - A is 13m to the east of B.

A % B (44) - A is 27m to the west of B.

A @ B (37) - A is 20m to the north of B.

A # B (40) - A is 23m to the south of B.

D % C (23), F # D (28), E % F (32), G * E (27), H % G (39), P # H (42)

44. If F @ M (42), M * V (32), then Which of the following is definitely true?

    A. E @ V (52)
    B. V @ E (37)
    C. P * V (29)
    D. All are definitely true
    E. D @ M (53)

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

    A. South-East
    B. South-West
    C. North-East
    D. North-West
    E. North

46. P is in which direction with respect to E and what is the shortest distance between them?

    A. South-East and $\sqrt{847}$
    B. South-West and $\sqrt{769}$
    C. North-East and $\sqrt{1109}$
    D. North-West and $\sqrt{943}$
    E. None of those given as option

47. If S @ H (28) , then which of the following points will be formed a straight line with S?

    A. P and H
    B. F and C
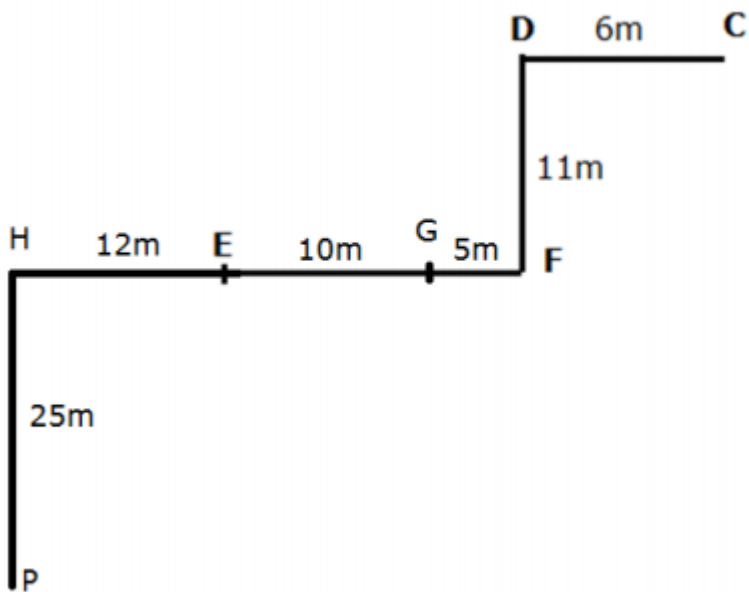   **C.** D and C
    D. P and F
    E. Both (a) and (c)
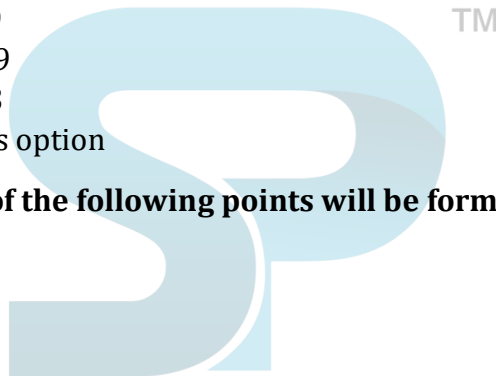
Directions (44-47):

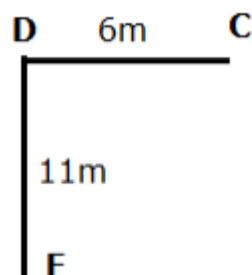Solution:

44. Answer: E

45. Answer: B

46. Answer: B

47. Answer: E

Explanation:

D % C (23) - D is 6m to the west of C
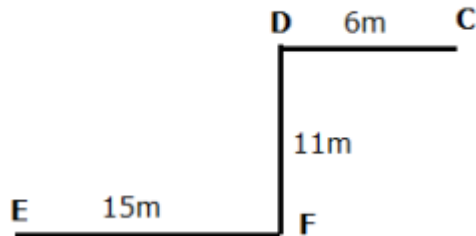

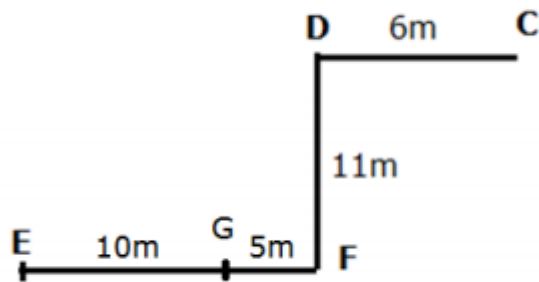F # D (28) - F is 11m to the south of D.
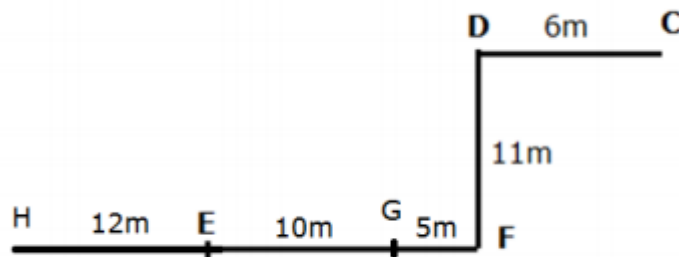
Memory Based Puzzle Asked in Banks Exams

E % F (32) - E is 15m to the west of F

```
                              D      6m      C
                              |_____
                              |
                              | 11m
                              |
   E        15m               | F
   |_____|
```
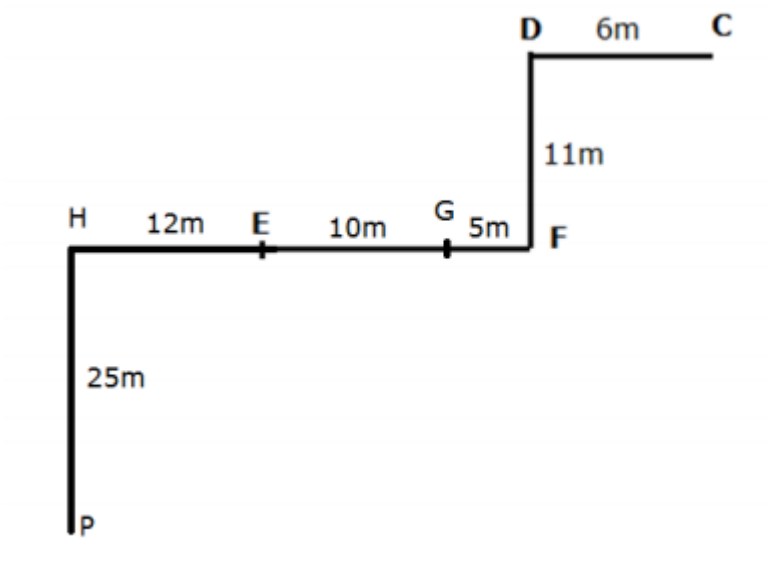
G * E (27) - G is 10m to the east of E

```
                              D      6m      C
                              |_____
                              |
                              | 11m
                              |
   E       10m      G   5m    | F
   |_____|_____|
```

H % G (39) – H is 22m to the west of G

```
                                    D      6m      C
                                    |_____
                                    |
                                    | 11m
                                    |
   H     12m    E    10m      G  5m | F
   |_____|_____|_____|
```

P # H (42) - P is 25m to the south of H

H % G (39) – H is 22m to the west of G

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