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1. The error lies in part 1, as the preposition used is incorrect. The correct preposition here must be go on 'to' win, which forms the 'to-infinitive', making it meaningful.

Part 2 may seem to have an error but it does not. The noun used here is not 'championships' but 'championship games'.

Parts 2 and 3 do not require any corrections.

Therefore, the correct answer is option 1.

Correct sentence - He would go on *to* win one of the most coveted championship games in the history of Basketball.

2. The error lies in part 1, as the sentence refers to the one singular event in which she could keep her promise. So, the verb must be singular too. So, the plural past tense verb 'were' is incorrect. The correction is required for part 1.

Parts 2 and 3 do not require any corrections.

Therefore, the correct answer is option 1.

Correct sentence - It *was* destined that she should be able to keep her promise to him.





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3. The error lies in part 3.

The sentence uses the preposition 'in', which means 'inside' something. This is incorrect, given the context of the sentence.

The correct preposition here should be 'as', as given by the correction statement.

Parts 2 and 3 do not require any corrections.

Therefore, the correct answer is option 3.

4. The error lies in part 1. It uses the pronoun 'whom', which is incorrect here. Whom is used as the object of the verb in the passive voice. The correct word here would be the conjunction 'that' or 'which'. So, a correction is needed.

Error also lies in part 3. 'from' afternoon is incorrect. The correct preposition here would be 'on' the afternoon.

Parts 2 does not require any corrections.

Therefore, the correct answer is option 3.

Correct sentence - It was indeed fate *that* brought the lovers together *on* that rainy August afternoon.

5. The error lies in part 2. The sentence uses the passive voice. So, the correct form here must be 'he had been granted' the lands 'by the will'. So, the correction is needed for part 2.

The active voice sentence would be 'The will of his father had granted him the sole rights to his father's lands and the properties on Mayfield'.

Parts 1 and 3 do not require any corrections.



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Therefore, the correct answer is option 2.

Correct sentence - By the will of his father he had *been* granted sole rights to his father's lands and the properties in Mayfield.

6. To deign is to do something that a person considers beneath him.

e.g. I did not deign to give him a reply or I did not deign a reply.

It is a verb, used with a noun or verb. This means that the underlined part is incorrect, as the sentence already uses the adjective 'unnecessary'.

To deem means to regard or consider in a certain way. This means B can improve the sentence.

e.g. He deemed the task to be a great success.

Since 'deigned' is incorrect, both A and C become incorrect.

Therefore, the correct answer is option 2.

Improved sentence - It was *deemed* unnecessary by the council to be holding public functions anymore.

7. 'Since 'remorse' is a noun, the word 'remorsed' is incorrect, and A is also incorrect.

'In spite to' is an incorrect usage. The correct phrase is 'in spite of', which means regardless of something or not being affected by something.

e.g. He was feeling cold in spite of the sunny weather.

Despite is a preposition that is synonymous with the phrase 'in spite of'.

e.g. He was feeling cold despite the sunny weather.

This suggests that both B and C are correct and improve the sentence.





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Therefore, the correct answer is option 4.

Improved sentence - The teacher felt great remorse in spite *of* the overwhelming response by the students.

OR

The teacher felt great remorse *despite* the overwhelming response by the students.

8. Vestige means a last trace or remnant of something that no longer exists. e.g. *The man looked at the kid without a vestige of sympathy.*

It is incorrect, given the context of the sentence, which suggests that the team was 'very near to' victory.

Verge means 'the border of something', while cusp means the edge or brink or threshold.

Both A and C can improve the sentence. B is incorrect, as it uses the plural 'were' for singular noun 'coach'.

Therefore, the correct answer is option 3.

Improved sentence - The coach was on the *verge/cusp* of leading the team to a great victory at the Basketball tournament.

9. The sentence uses the phrase 'in doing so', which means 'by doing a certain activity in a certain way'. To cultivate is to grow or nurture something.

None of the suggested options are grammatically correct. They cannot improve the sentence.

Therefore, the correct answer is option 5.

10. The sentence uses the simple present tense form of the verb 'to arrest', which is incorrect, given the context.



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A uses 'arrest', which is the noun form of the verb 'to arrest'. Whenever a noun is used, a corresponding preposition must also be used (the arrest of). But, A does not use a preposition with the noun, making it incorrect.

Both B and C use the continuous/progressive and the to-infinitive form of the verb 'to arrest' respectively. Both can make the sentence meaningful and improve it.

Therefore, the correct answer is option 4.

Improved sentence - The crisis made Kennedy believe that another failure on part of the United States in *arresting* communist expansion would fatally damage U.S. credibility.

OR

The crisis made Kennedy believe that another failure on part of the United States *to arrest* communist expansion would fatally damage U.S. credibility.

11. Both sentences suggest that the blank must contain a word that would mean 'take over' or supersede. The only word out of the options that shows this meaning is 'surpass'.

Conflict means a serious disagreement. To *ignite* is to start something. None of the other options can make the sentences meaningful.

Therefore, the correct answer is option 3.

Complete sentences-

I. The television seemed to quickly surpass radio as the major source of entertainment.

II. The performance shown by the boy would surpass even the toughest Olympic athletes.



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12. The first blank needs a word that means 'trouble' and the second blank must contain a word meaning 'a regular place of meeting'. Both of these meanings are satisfied only by the word 'haunt'.

Balm means a soothing cream, *Club* is a place of meeting. *Joint* means combined. To *invest* is to put valuable resources in something. None of the other options can make the sentences meaningful.

Therefore, the correct answer is option 4.

Complete sentences-

I. Little did I know that this incident from my past would come back to haunt me.

II. Cafe de Flore was the favourite haunt of the artists in the 1920s Paris.



13. The first blank suggests that the blank must contain a word to describe the height of the cliff. The second blank must have a word that suggests a relationship between the slope and elasticity of demand. Both 'tall' and 'steep' can be viable here; but only 'steep' can make both sentences meaningful. A 'tall' demand curve doesn't really make sense.

None of the other options can make the sentences meaningful.

Therefore, the correct answer is option 3.

Complete sentences-

I. The edge of the cliff seemed very steep and I wondered how anybody could have ever climbed it.

II. The bigger slope would mean a steep demand curve and lesser elasticity of the demand for a product.



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14. The first sentence uses the word 'magnanimity', which means generous or kind. So, the blank must use a word that is similar in meaning. The only word that fits this blank is charitable, which also makes sense with respect to the second blank; which talks about 'charitable' institutions.

None of the other options can make the sentences meaningful.

Therefore, the correct answer is option 5.

Complete sentences-

I. He was the most charitable person I had met, as his magnanimity showed no bounds.

II. The purpose of such charitable institutions is to ensure the poor and the needy are well taken care of.

15. Given the context of the two sentences, the only words that can be viable here would be 'different' and 'distinct'. But, different and similar cannot be used together in the first sentence. So, the only word that can fit here is 'distinct', which means recognisably different from something similar.

None of the other options can make the sentences meaningful.

Therefore, the correct answer is option 2.

Dodge => avoid; jump

Complete sentences-

I. Sentences of such type would compare distinct but similar ideas in a paragraph.



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11. As soon as I entered the room, I got the distinct impression of having been there before.

16. *Insofar is just a variant spelling of "so far as."* So option 4 is the correct answer.

17. Sacrosanct 'means' *regarded as too important or valuable to be interfered with.* 'So its synonym must be 'unassailable.' *This word means 'unable to be attacked, questioned, or defeated.'* So option 3 is correct.

The rest of the words have a common meaning i.e. "charm or enchant (someone), often in a deceptive way."

18. From the statement "*The committee recommended that the law be repealed altogether, and that the Unlawful Activities (Prevention) Act be amended in a manner that would enable insurgency and conflict to be tackled legally*" we can understand that option 4 is correct answer.

Thus, option 4 is the correct answer.

19. This is given in the statement "***The extent of 'disturbed areas' in Meghalaya was earlier limited to within 20 km of its border with Assam.***" So option 2 is correct.

20. The answer to this question is given in the last and closing part of this passage. '*Now that there is some degree of official recognition that special*



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laws for protecting armed forces personnel from the legal consequences of their operations and excesses need not continue indefinitely, it is time for the Centre to revisit the Jeevan Reddy committee report and find ways of humanising AFSPA."

Thus, option 3 is the correct answer.

21. Here option 4 is the correct interpretation of the court's decision. This is can also be understood from he statement "*In other words, accountability for human rights violations is sacrosanct and the legal protection offered by AFSPA cannot be absolute.*"

Thus, option 4 is the correct answer.



22. Option 4 is just a recommendation, not a final decision. While the options 1 and 3 were not mentioned in this context. Option 2 is the correct statement. It can be inferred from the sentence "*There is no sign that the vigour of the law will be diluted, but the area of its use may be progressively curtailed over time.*"

Thus, option 2 is the correct answer.

23. Option 2 is the correct answer here. This is one of the major flaws of this Act. And whoever opposes this Act does it for this particular reason only. *The AFSPA makes the army immune to investigations for the crimes they commit.* This is why they develop impunity which means '*exemption from punishment or freedom from the injurious consequences of an action.*'





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Hence option 2 is correct.

24. The sentence "*The whole of Nagaland, most of Assam, and Manipur excluding the areas falling under seven Assembly constituencies in Imphal*" tells us that Nagaland is completely under AFSPA.

Thus, option 5 is the correct answer.

25. The very first sentence of the passage mentions that the decision to revoke AFSPA from Meghalaya shows that, *AFSPA is invoked for a reason and the moment when that reason is dealt with, it will be revoked*.

So, option 4 is the correct answer.



26. On looking at the above given passage, we observe that it is based on India's strong disapproval against CPEC because of India-Pak rivalry.

So, the passage should start with India does not support CPEC. It is mentioned in D. So, the 1st sentence is D. Now, it is followed by 2nd, i.e. D2. Now, the passage gives the reason behind its disapproval is given in A. Hence, it is D2A. Now, it justifies more its reason with C. Hence, it is D2AC. And, it is followed by 5th, i.e. D2AC5. And, the passage is concluded by a solution to India's disagreement. It is given in E, i.e. D2AC5E. And, finally its B. So, the correct sequence is D2AC5EB.

27. On looking at the above given passage, we observe that it is based on India's strong disapproval against CPEC because of India-Pak rivalry.

10 | Page



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So, the passage should start with India does not support CPEC. It is mentioned in D. So, the 1st sentence is D. Now, it is followed by 2nd, i.e. D2. Now, the passage gives the reason behind its disapproval is given in A. Hence, it is D2A. Now, it justifies more its reason with C. Hence, it is D2AC. And, it is followed by 5th, i.e. D2AC5. And, the passage is concluded by a solution to India's disagreement. It is given in E, i.e. D2AC5E. And, finally its B. So, the correct sequence is D2AC5EB.

29. On looking at the above given passage, we observe that it is based on India's strong disapproval against CPEC because of India-Pak rivalry.

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is given in E, i.e. D2AC5E. And, finally its B. So, the correct sequence is D2AC5EB.

30. On looking at the above given passage, we observe that it is based on India's strong disapproval against CPEC because of India-Pak rivalry.

So, the passage should start with India does not support CPEC. It is mentioned in D. So, the 1st sentence is D. Now, it is followed by 2nd, i.e. D2. Now, the passage gives the reason behind its disapproval is given in A. Hence, it is D2A. Now, it justifies more its reason with C. Hence, it is D2AC. And, it is followed by 5th, i.e. D2AC5. And, the passage is concluded by a solution to India's disagreement. It is given in E, i.e. D2AC5E. And, finally its B. So, the correct sequence is D2AC5EB.

31. 1) Pavan is the father of Jhon.

2) Sweety is the mother of Nag who is the brother of John. So, Pavan and Sweety are husband and

Wife.

3) Bunny is the son of Sweety.

4) Chinni is the sister of Bunny.

Now, draw the family tree using following notations:



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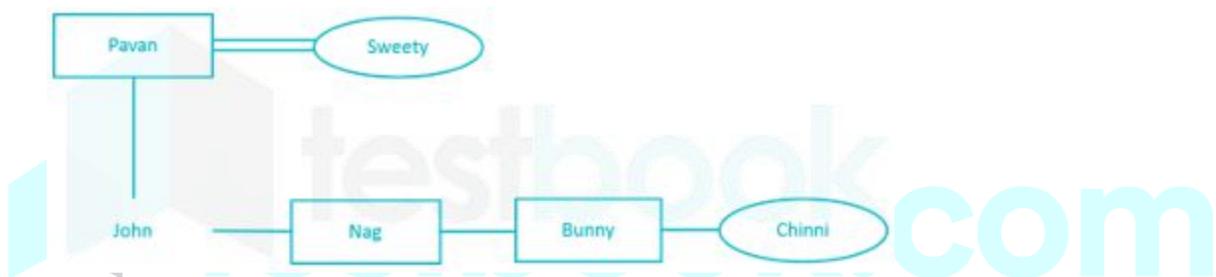
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Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation



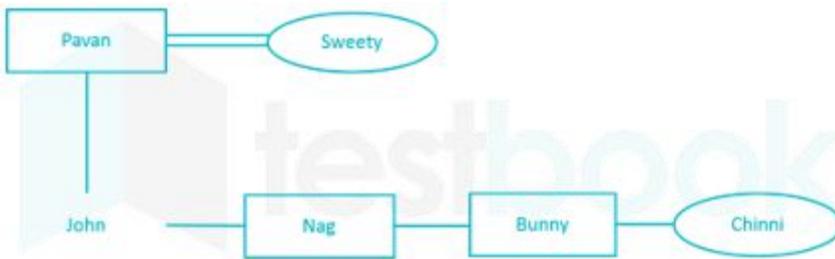
The gender of John is not known, therefore, John may be brother or sister of Chinni.

32. 1) Pavan is father of Jhon.
- 2) Sweety is mother of Nag who is brother of John. So, Pavan and Sweety are husband and wife.
- 3) Bunny is son of Sweety.
- 4) Chinni is sister of Bunny.

Now, draw the family tree using following notations:



Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation



Therefore, Pavan is father of Bunny.

33. 1) L is shorter than only one student.

___ > L > ___ > ___ > ___.

2) N is taller than only P.

___ > L > ___ > N > P.

3) O is not the third shortest student. So, M is third shortest student.

O > L > M > N > P.

Therefore, M is third shortest student.





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34. 1) L is shorter than only one student.

____ > L > ____ > ____ > ____.

2) N is taller than only P.

____ > L > ____ > N > P.

3) O is not the third shortest student. So, M is third shortest student.

O > L > M > N > P.

Therefore, O is the tallest.

35. Given statements: $Z < P \leq A = J \geq T > N$; $O \geq L = E > A < D$; $V < S > J > R$.

On combining: $Z < P \leq A < E = L$; $V < S > J \geq T > N$; $O \geq L = E > A = J > R$; $L = E > A \geq P > Z$; $Z < P \leq$

$A = J > R$; $Z < P \leq A = J < S > V$; $Z < P \leq A = J < D$; $Z < P \leq A = J < L = E \leq O$.

Conclusions:

I. $V > N \rightarrow$ False (as $V < S > J \geq T > N \rightarrow$ thus clear relation between V and N cannot be determined).

II. $S \geq N \rightarrow$ False (as $S > J \geq T > N \rightarrow S > N$)

III. $Z < L \rightarrow$ True (as $Z < P \leq A < E = L \rightarrow Z < L$)

IV. $O > R \rightarrow$ True (as $O \geq L = E > A = J > R \rightarrow O > R$)

Therefore, only conclusions III and IV are true.

36. Given statements: $Z = Y \geq I > O \leq X = S$; $R > M > E > Z \leq G$; $F \leq Y \leq N > V > D$.

15 | Page



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On combining: $R > M > E > Z = Y \geq I > O$; $N \geq Y \geq I > O$; $Z = Y \leq N > V > D$; $Z = Y \geq F$; $F \leq Y = Z \geq I$

$> O \leq X = S$; $D < V < N \geq Y \geq I > O \leq X = S$.

Conclusions:

I. $I < R \rightarrow$ True (as $R > M > E > Z = Y \geq I \rightarrow I < R$)

II. $D > I \rightarrow$ False (as $D < V < N \geq Y \geq I \rightarrow$ thus clear relation between D and I cannot be determined)

III. $R > O \rightarrow$ True (as $R > M > E > Z = Y \geq I > O \rightarrow R > O$)

IV. $N > O \rightarrow$ True (as $N \geq Y \geq I > O \rightarrow N > O$)

Therefore, conclusions I, III and IV are true.

37. Given statements: $C > O \geq Q \leq T \leq N \geq Y = R$; $I \geq V \geq E \leq S \leq R$; $R > L > A$; $K < G \leq M > Q \geq D$.

On combining: $N \geq Y = R > L > A$; $N \geq Y = R \geq S \geq E$; $K < G \leq M > Q \leq T \leq N \geq Y = R$; $D \leq Q \leq T \leq N$

$\geq Y = R$; $I \geq V \geq E \leq S \leq R = Y \leq N \geq T \geq Q \leq O < C$; $C > O \geq Q \leq T \leq N \geq Y = R > L > A$.

Conclusions:

I. $N > E \rightarrow$ False (as $N \geq Y = R \geq S \geq E \rightarrow N \geq E \rightarrow$ thus either $N > E$ or $N = E$ is true)

II. $N = E \rightarrow$ False (as $N \geq Y = R \geq S \geq E \rightarrow N \geq E \rightarrow$ thus either $N > E$ or $N = E$ is true)



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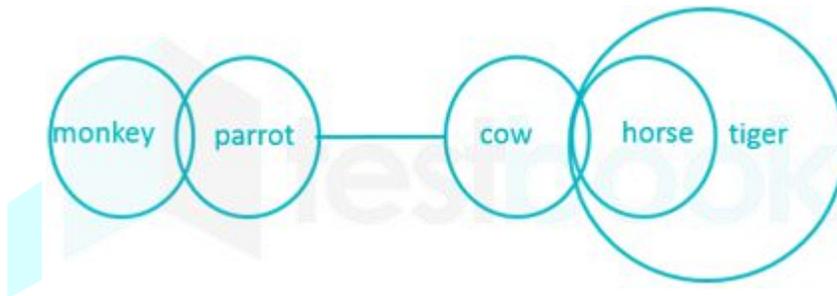
III. $N > A \rightarrow$ True (as $N \geq Y = R > L > A \rightarrow N > A$)

IV. $T \geq G \rightarrow$ False (as $G \leq M > Q \leq T \rightarrow$ thus clear relation between T and G cannot be determined)

Thus, conclusion I and II forms complementary pair.

Therefore, only conclusions III and either conclusion I or II are true.

38. The least possible Venn diagram for the given statements is as follows,



Conclusions:

I. Some tiger are parrot \rightarrow it is possible but not definite in least possible Venn diagram.

Hence, it is false.

II. Some cow are monkey \rightarrow it is possible but not definite in least possible Venn diagram.

Hence, it is false.

III. No parrot is tiger \rightarrow it is possible but not definite in least possible Venn diagram.

Hence, it is false.



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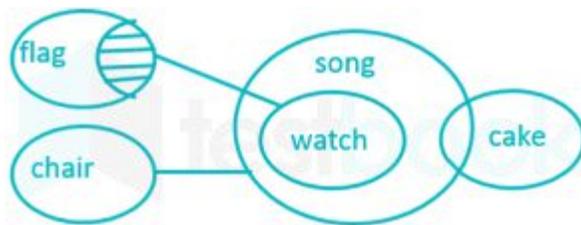
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IV. Some horse are parrot → it is possible but not definite in least possible Venn diagram.

Thus, conclusion I and III forms complementary pair.

Therefore, only either I or III follows.

39. The least possible Venn diagram for the given statements is as follows,



Conclusions:

I. Some song are not flag → all watch are song and some flag are not watch. So, all song can

never be flag. Hence, it is true.

II. Some watch are cake → it is possible but not definite in least possible Venn diagram.

Hence, it is false.

III. No watch is chair → all watch are song and no chair is song. Hence, it is true.

IV. All chair can be cake → the possibility is true as shown below:



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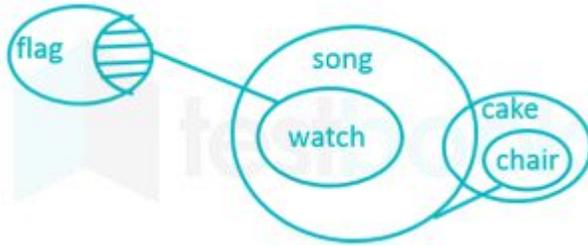
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Therefore, only I, III and IV follow.

40. Given series:

3 1 4 7 3 9 8 5 5 2 6 3 1 1 8 6 3 8 9 2 2 4 1 4 6 7 8

The number ninth from right end is 9.

The number which is third to the right of 9 is 4.

Hence, the required number is 4.

41. Given series:

3 1 4 7 3 9 8 5 5 2 6 3 1 1 8 6 3 8 9 2 2 4 1 4 6 7 8

The number ninth from right end is 9.

The number which is third to the right of 9 is 4.

Hence, the required number is 4.

42. Given series:

3 1 4 7 3 9 8 5 5 2 6 3 1 1 8 6 3 8 9 2 2 4 1 4 6 7 8

Therefore, there are four even numbers which are immediately preceded by an odd number but immediately followed by an even number.

43. Alphabet series:





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A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Letter	M	O	T	H	E	R
Number	13	15	20	8	5	18

$$\text{MOTHER} = 13 + 15 + 20 + 8 + 5 + 18 = 79.$$

Similarly,

Letter	S	I	S	T	E	R
Number	19	9	19	20	5	18

$$\text{SISTER} = 19 + 9 + 19 + 20 + 5 + 18 = 90.$$

Hence, SISTER is coded as 90

44. Arrangement required: Number → Consonant → Symbol

Given series is: 4 C * 3 B J 5 K % L 9 M 6 N * A 8 P 1 @ Q \$ R 2 S # T U 7 G

Clearly four such pairs are there i.e. 4 C *, 5 K %, 6 N * and 2 S #.

45. Arrangement required: Number → Consonant → Symbol

Given series is: 4 C * 3 B J 5 K % L 9 M 6 N * A 8 P 1 @ Q \$ R 2 S # T U 7 G



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Clearly four such pairs are there i.e. 4 C *, 5 K %, 6 N * and 2 S #.

46. Arrangement required: C * B J K % L M N * A P @ Q \$ R S # T U G

Given series is: (Left) 4 C * 3 B J 5 K % L 9 M 6 N * A 8 P 1 @ Q \$ R 2 S # T U 7 G
(Right)

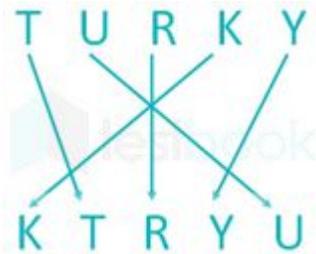
⇒ 6th from left + 10th to right = 16th from right

Clearly, 16th from right is '%’.

47. The pattern is as follows:



And,



Similarly,



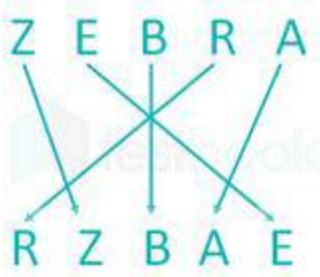
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Hence, RZBAE is the correct answer.

RZBAE is the correct answer.

48. The sequence is kkmkk kkmkk kkmkk.

Hence, mkmmk is the correct set of letters



49. 1) Kumar walks 10 meters towards North.

2) From there, he walks 6 meters towards South.

3) Then, he walks 3 meters towards East.

The movements of Kumar are as shown in the figure:

(Starting point (A) to B, B to C, C to ending point (D))



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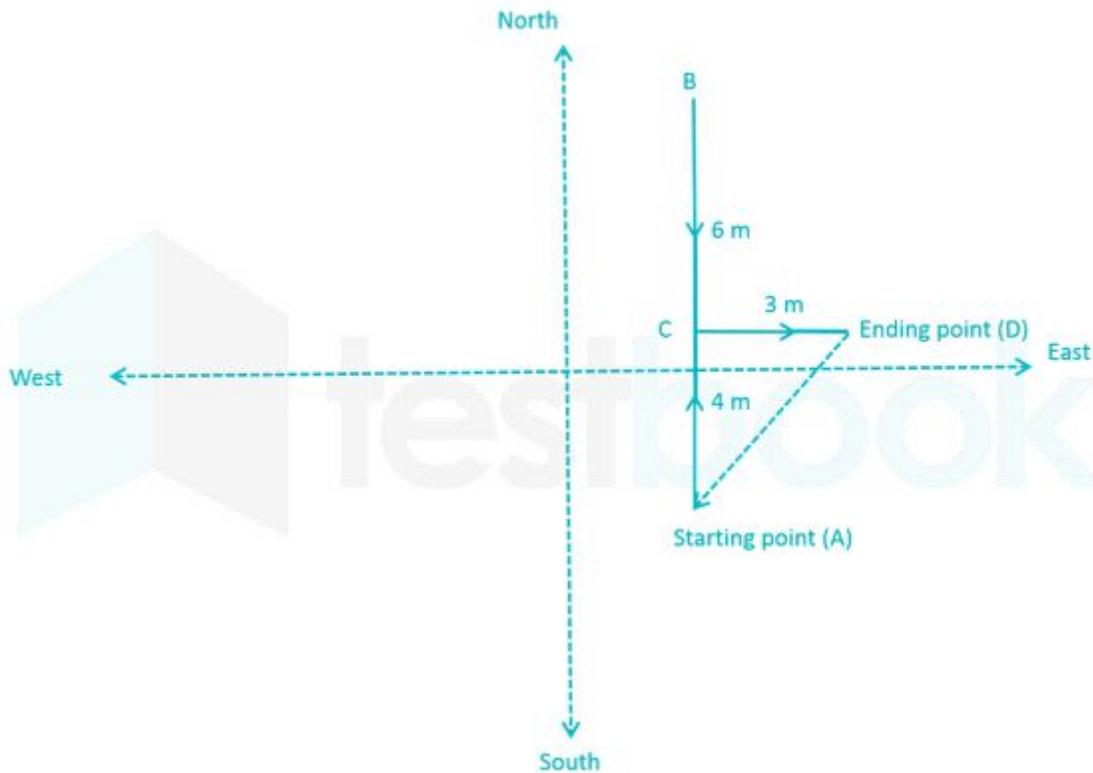
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Therefore, he is to the North - East of the starting point.

50. 1) Kumar walks 10 meters towards North.
- 2) From there, he walks 6 meters towards South.
- 3) Then, he walks 3 meters towards East.

The movements of Kumar are as shown in the figure:

(Starting point (A) to B, B to C, C to ending point (D))





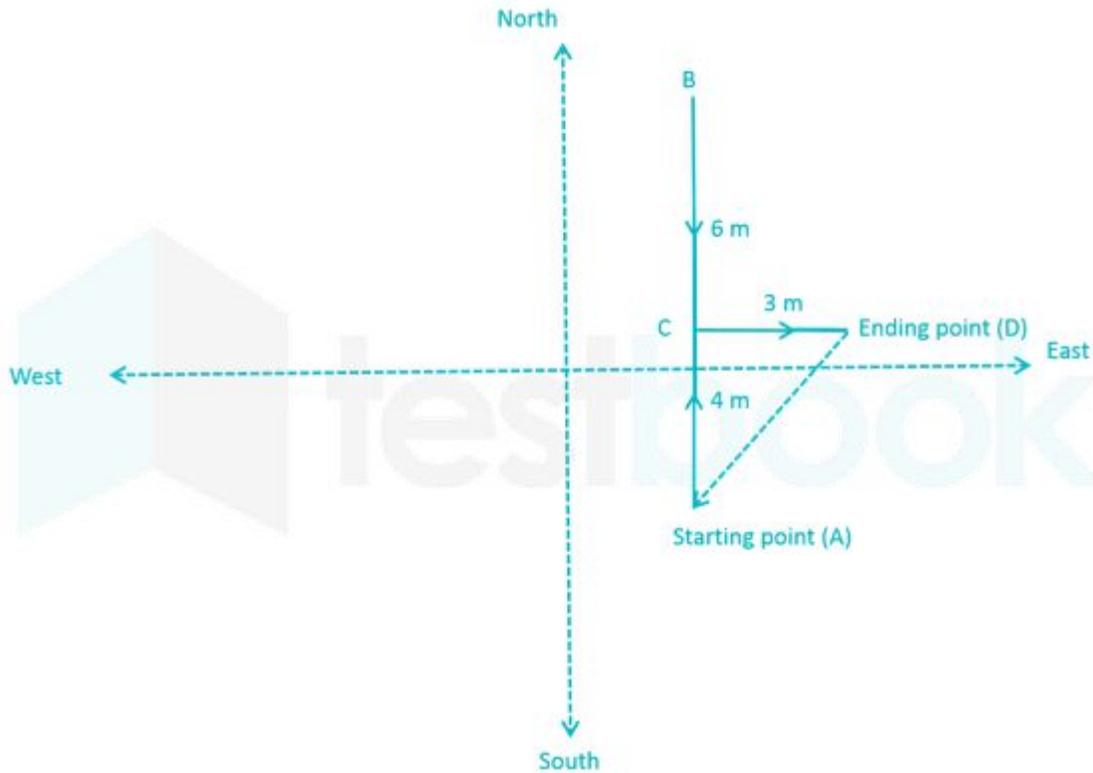
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$AC = (AB - BC) = (10 - 6) = 4$ meters.

To find the distance between A and D:

In triangle: ACD,

Applying Pythagoras theorem,

$$AD^2 = AC^2 + CD^2$$

$$= 4^2 + 3^2 = 16 + 9 = 25$$

$$AD = \sqrt{25} = 5.$$

Therefore, he is 5 meters away from the starting point.

51. Persons: Anu, Chris, Ellen, Gouri, Jasmin, Leela, Nike and Peru.



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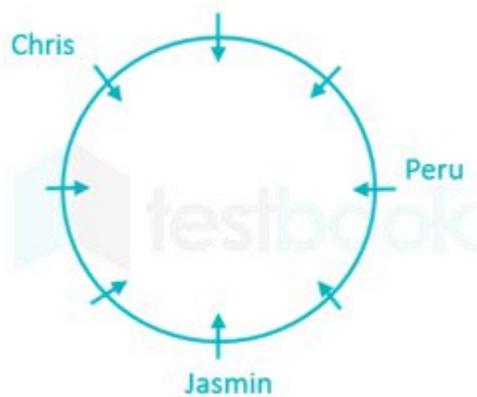
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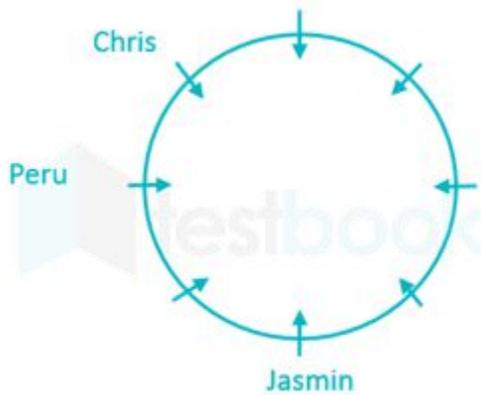
Each of them is also related to Jasmin in some way or the other.

- 1) Chris sits third to the left of Jasmin.
- 2) Only one person sits between Jasmin and Peru.

Case i)



Case ii)



- 3) Jasmin's sister sits to the immediate right of Peru.
- 4) Only two people sit between Jasmin's sister and Jasmin's mother.

Case i)



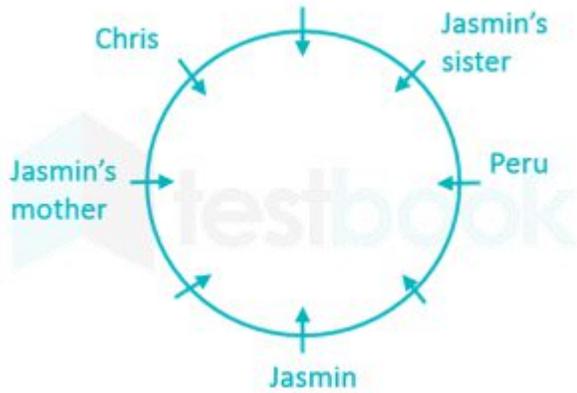
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Case ii)

Case a)



Case b)



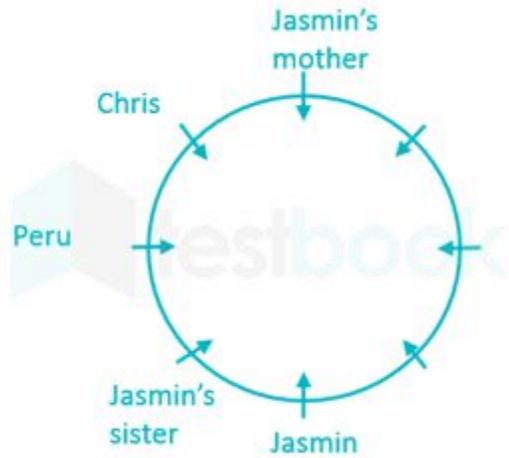
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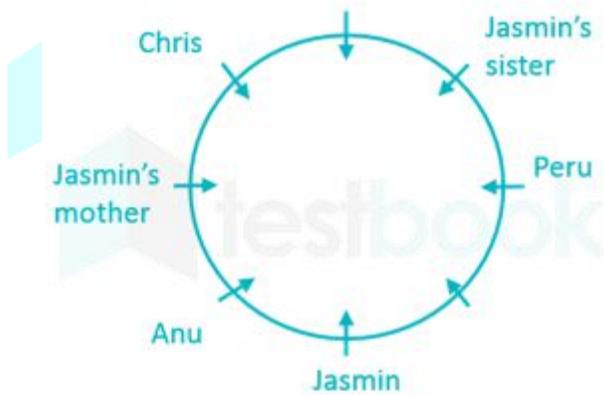
testbook

BUY NOW



5) Anu sits to the immediate right of Jasmin's mother.

Case i)



Case ii)

The above condition is not possible in Case b.



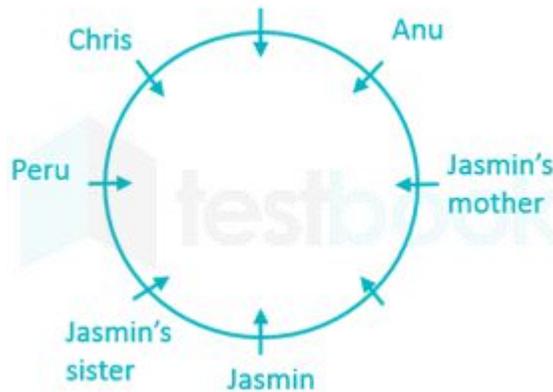
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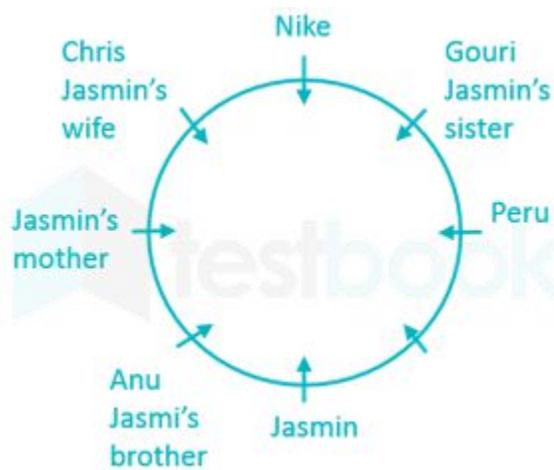
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BUY NOW



- 6) Nike sits to the immediate right of Gouri.
- 7) Jasmin's brother sits third to the right of Nike.
- 8) Jasmin's wife sits second to the left of Jasmin's brother.

Case i)



Case ii)



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ACROSS ALL EXAMS

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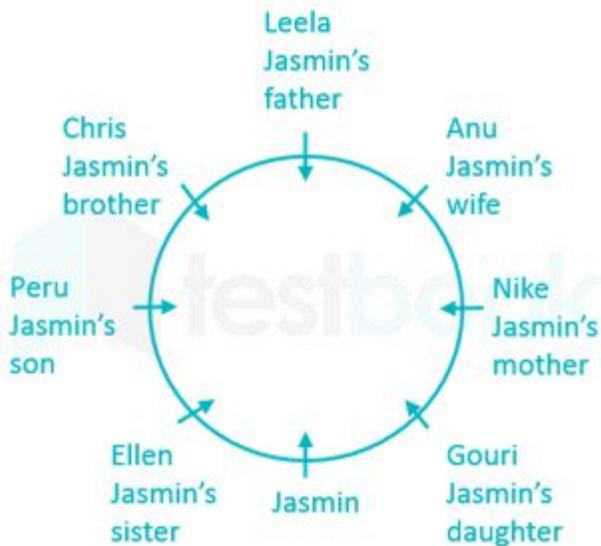
BUY NOW



- 9) Only three people sit between Jasmin's wife and Ellen.
- 10) Jasmin's son sits second to the right of Jasmin's father.
- 11) Only two people sit between Jasmin's father and Jasmin's daughter.

The above conditions are not satisfied in case i.

The final arrangement will be as shown below:



Hence, Chris is Jasmin's brother.



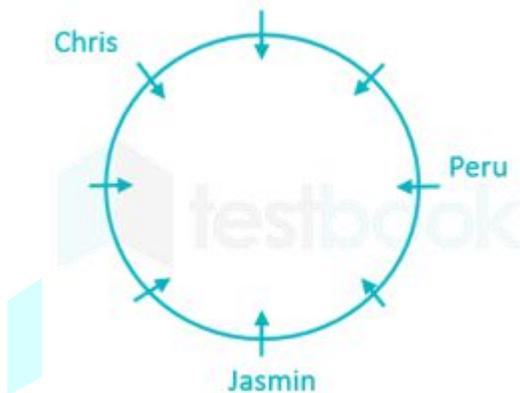
52. Persons: Anu, Chris, Ellen, Gouri, Jasmin, Leela, Nike and Peru.

Each of them is also related to Jasmin in some way or the other.

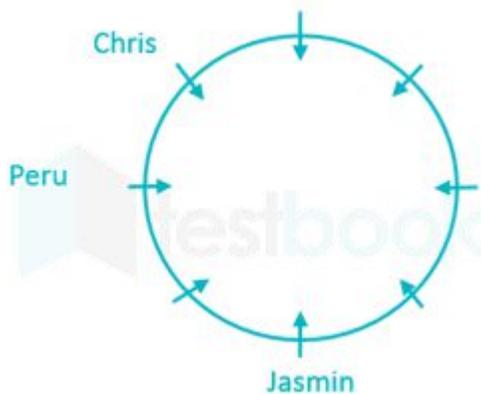
1) Chris sits third to the left of Jasmin.

2) Only one person sits between Jasmin and Peru.

Case i)



Case ii)



3) Jasmin's sister sits to the immediate right of Peru.

4) Only two people sit between Jasmin's sister and Jasmin's mother.





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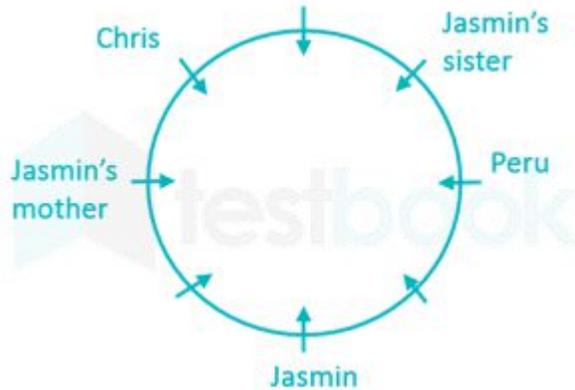
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Case i)



Case ii)

Case a)



Case b)





testbook

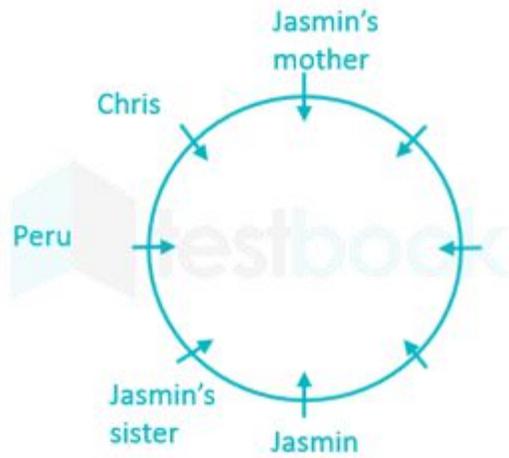


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4 MONTHS

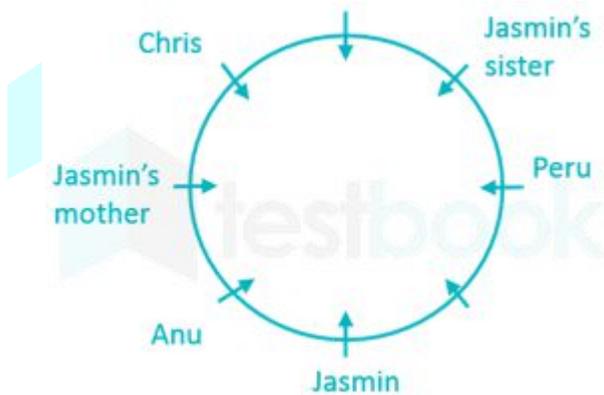


BUY NOW



5) Anu sits to the immediate right of Jasmin's mother.

Case i)



Case ii)

The above condition is not possible in Case b.



testbook

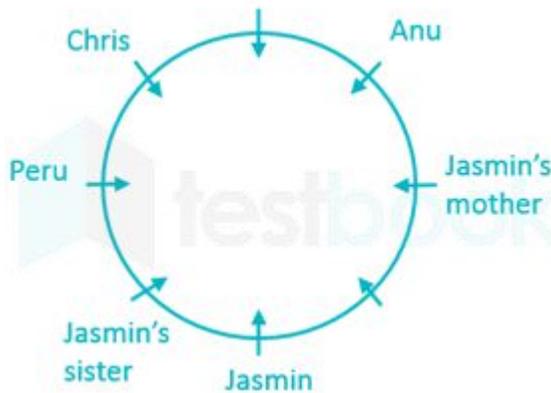


ATTEMPT ALL TESTS
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BUY NOW

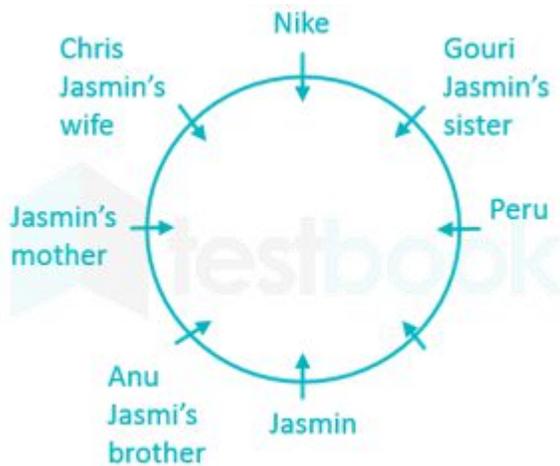


6) Nike sits to the immediate right of Gouri.

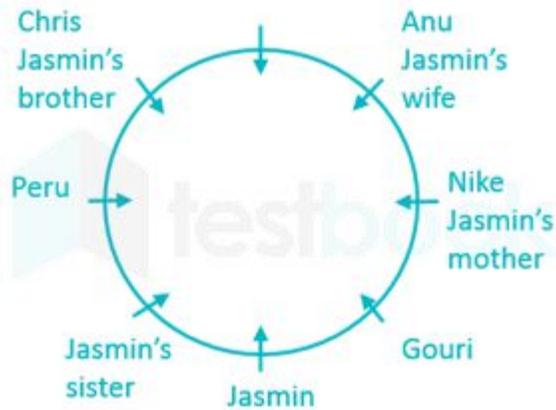
7) Jasmin's brother sits third to the right of Nike.

8) Jasmin's wife sits second to the left of Jasmin's brother.

Case i)



Case ii)



- 9) Only three people sit between Jasmin's wife and Ellen.
- 10) Jasmin's son sits second to the right of Jasmin's father.
- 11) Only two people sit between Jasmin's father and Jasmin's daughter.

The above conditions are not satisfied in case i.

The final arrangement will be as shown below:



Hence, two people sit between Jasmin and Chris, when counted from the right of Chris.





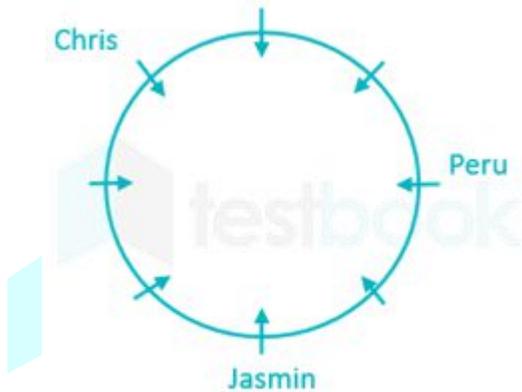
53. Persons: Anu, Chris, Ellen, Gouri, Jasmin, Leela, Nike and Peru.

Each of them is also related to Jasmin in some way or the other.

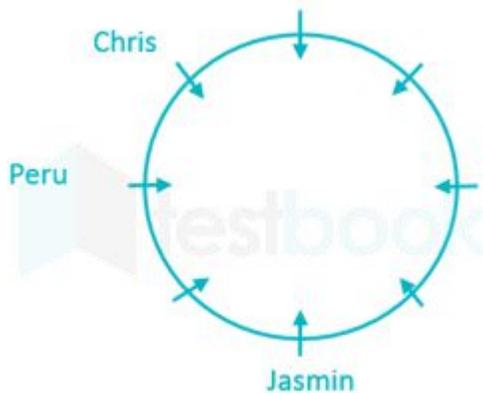
1) Chris sits third to the left of Jasmin.

2) Only one person sits between Jasmin and Peru.

Case i)



Case ii)

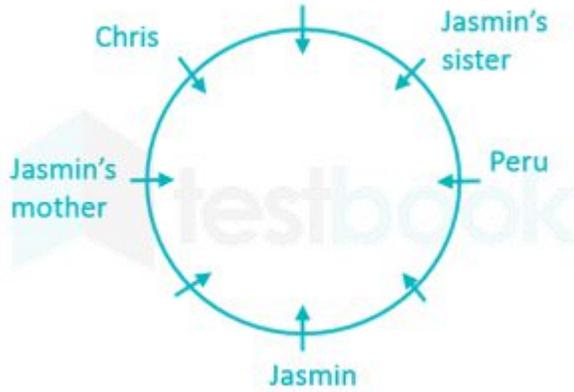


3) Jasmin's sister sits to the immediate right of Peru.



4) Only two people sit between Jasmin's sister and Jasmin's mother.

Case i)



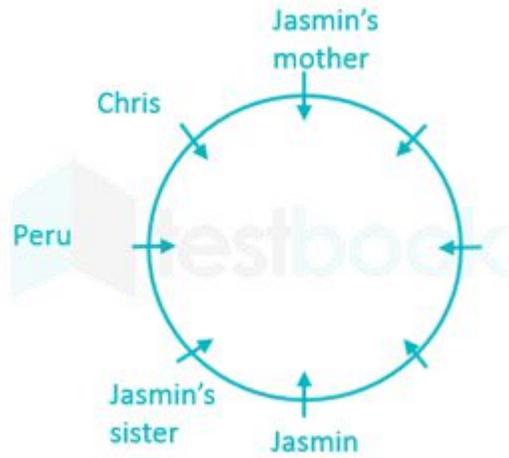
Case ii)

Case a)



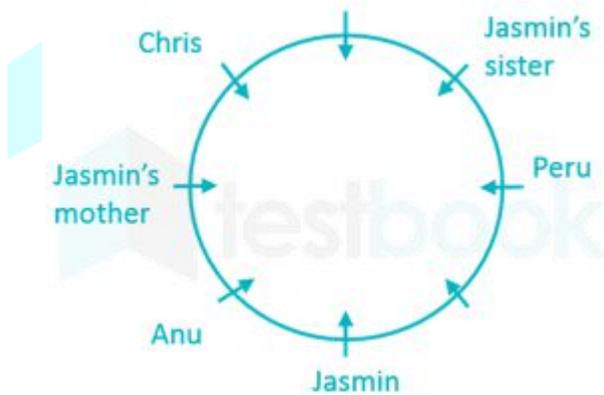
Case b)





5) Anu sits to the immediate right of Jasmin's mother.

Case i)



Case ii)

The above condition is not possible in Case b.



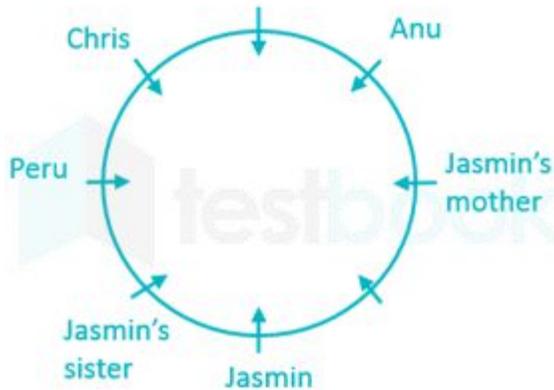
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- 6) Nike sits to the immediate right of Gouri.
- 7) Jasmin's brother sits third to the right of Nike.
- 8) Jasmin's wife sits second to the left of Jasmin's brother.

Case i)



Case ii)



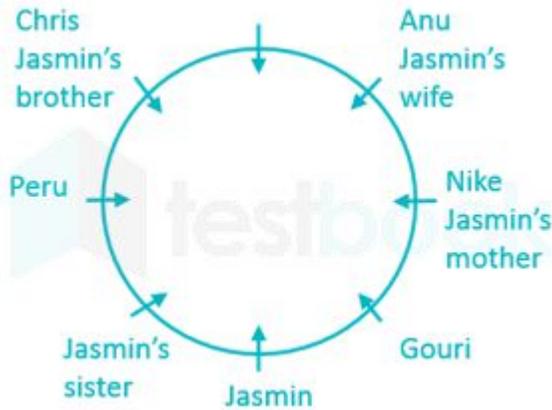
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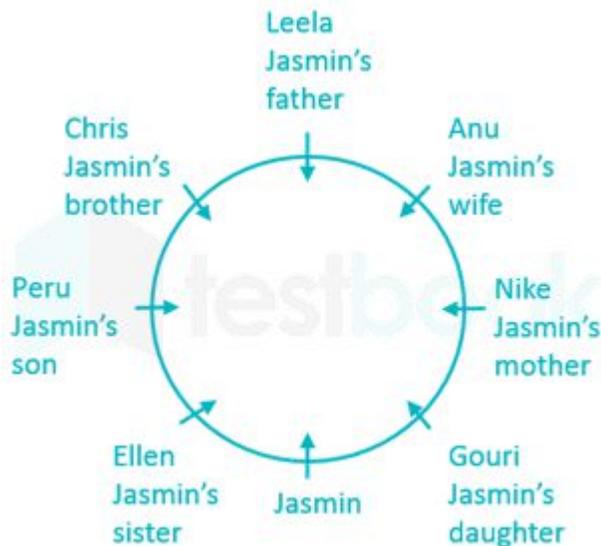
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- 9) Only three people sit between Jasmin's wife and Ellen.
- 10) Jasmin's son sits second to the right of Jasmin's father.
- 11) Only two people sit between Jasmin's father and Jasmin's daughter.

The above conditions are not satisfied in case i.

The final arrangement will be as shown below:



Hence, Jasmin's sister i.e. Ellen sits to the immediate right of Peru.



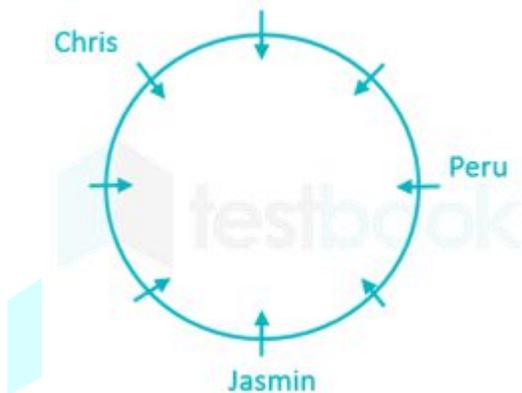
54. Persons: Anu, Chris, Ellen, Gouri, Jasmin, Leela, Nike and Peru.

Each of them is also related to Jasmin in some way or the other.

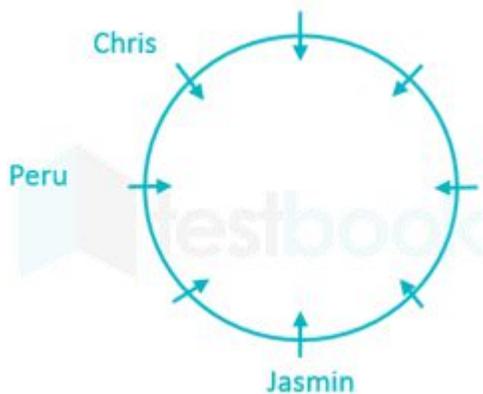
1) Chris sits third to the left of Jasmin.

2) Only one person sits between Jasmin and Peru.

Case i)



Case ii)



3) Jasmin's sister sits to the immediate right of Peru.

4) Only two people sit between Jasmin's sister and Jasmin's mother.





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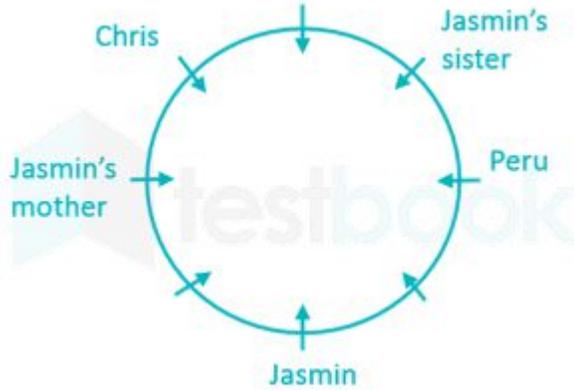
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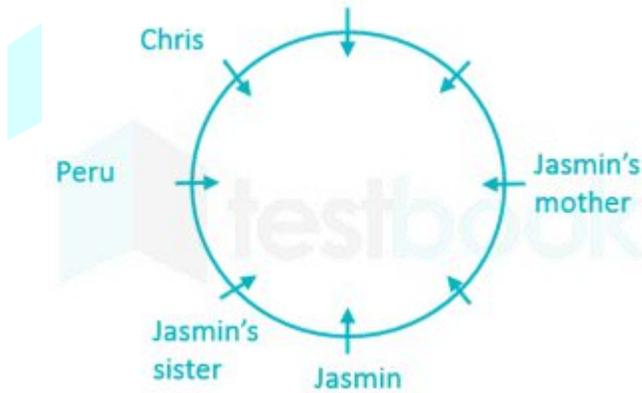
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Case i)



Case ii)

Case a)



Case b)





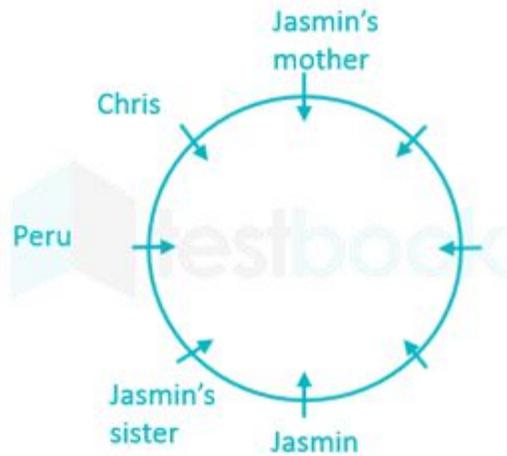
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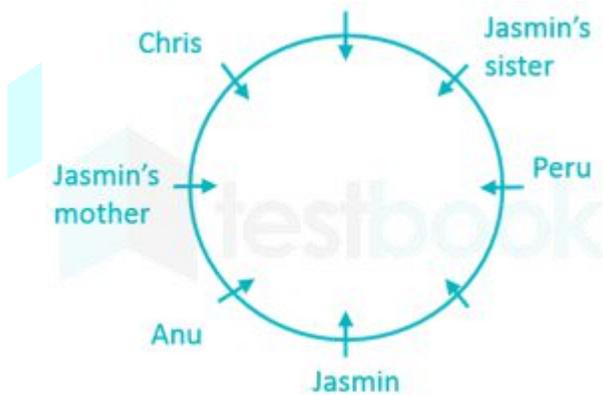
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BUY NOW



5) Anu sits to the immediate right of Jasmin's mother.

Case i)



Case ii)

The above condition is not possible in Case b.



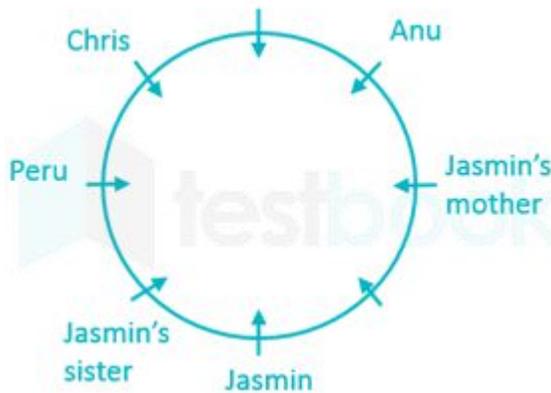
testbook **PASS**

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BUY NOW



6) Nike sits to the immediate right of Gouri.

7) Jasmin's brother sits third to the right of Nike.

8) Jasmin's wife sits second to the left of Jasmin's brother.

Case i)



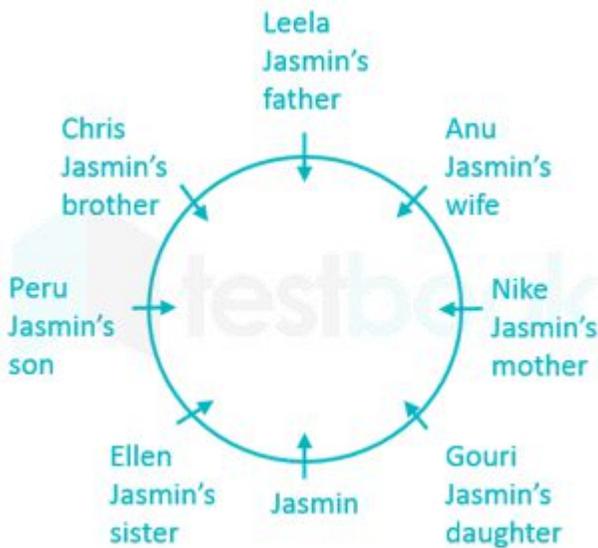
Case ii)



- 9) Only three people sit between Jasmin's wife and Ellen.
- 10) Jasmin's son sits second to the right of Jasmin's father.
- 11) Only two people sit between Jasmin's father and Jasmin's daughter.

The above conditions are not satisfied in case i.

The final arrangement will be as shown below:



Hence, Nike sits to the immediate left of Anu is true.





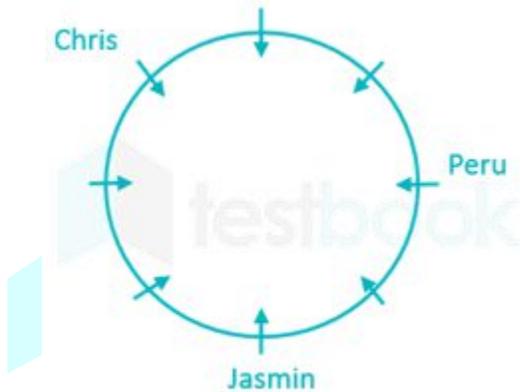
55. Persons: Anu, Chris, Ellen, Gouri, Jasmin, Leela, Nike and Peru.

Each of them is also related to Jasmin in some way or the other.

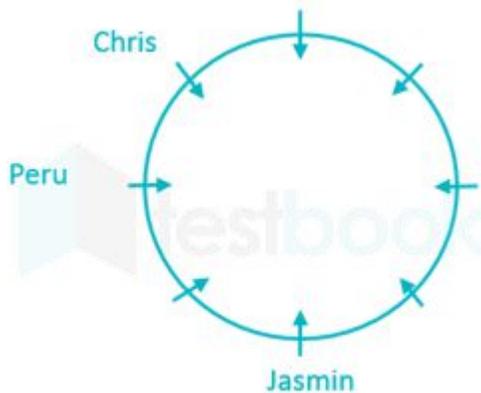
1) Chris sits third to the left of Jasmin.

2) Only one person sits between Jasmin and Peru.

Case i)



Case ii)

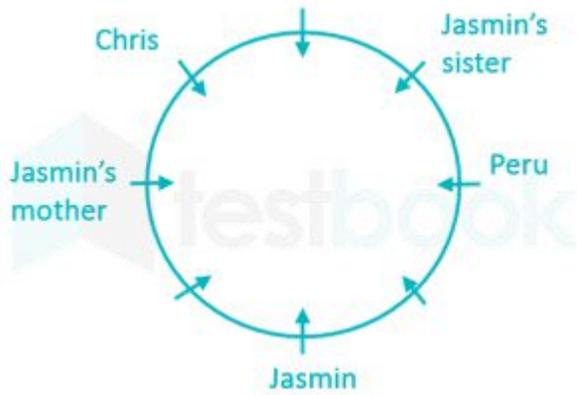


3) Jasmin's sister sits to the immediate right of Peru.



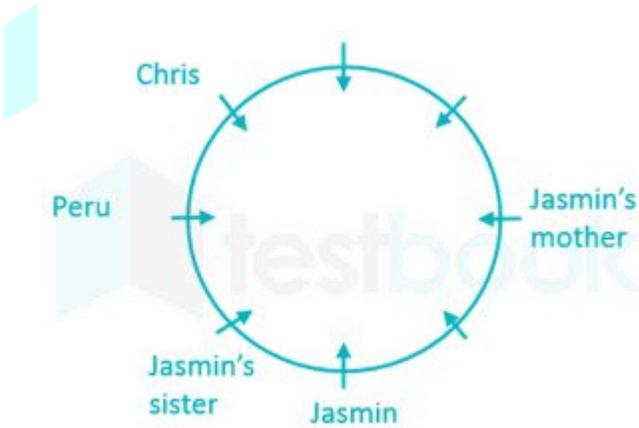
4) Only two people sit between Jasmin's sister and Jasmin's mother.

Case i)



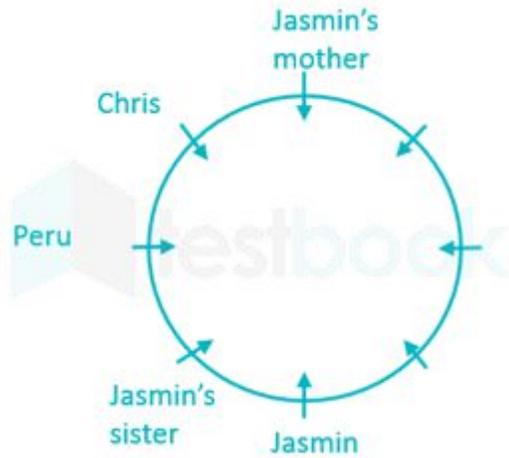
Case ii)

Case a)



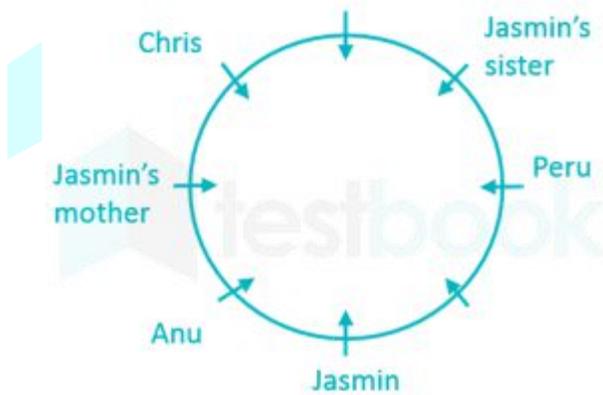
Case b)





5) Anu sits to the immediate right of **Jasmin's mother**.

Case i)



Case ii)

The above condition is not possible in Case b.



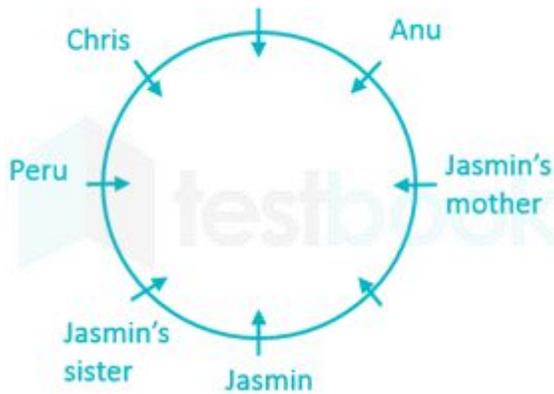
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- 6) Nike sits to the immediate right of Gouri.
- 7) Jasmin's brother sits third to the right of Nike.
- 8) Jasmin's wife sits second to the left of Jasmin's brother.

Case i)



Case ii)



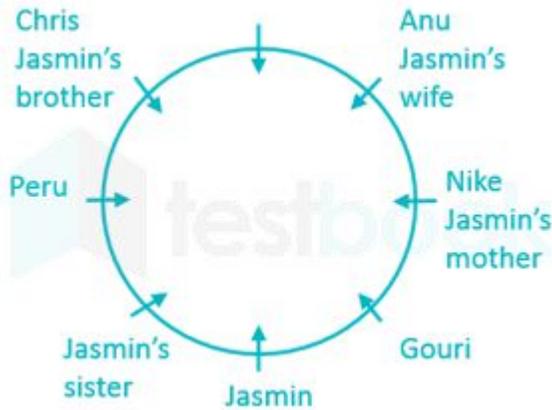
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- 9) Only three people sit between Jasmin's wife and Ellen.
- 10) Jasmin's son sits second to the right of Jasmin's father.
- 11) Only two people sit between Jasmin's father and Jasmin's daughter.

The above conditions are not satisfied in case i.

The final arrangement will be as shown below:



Hence, Anu is sister - in - law of Ellen.



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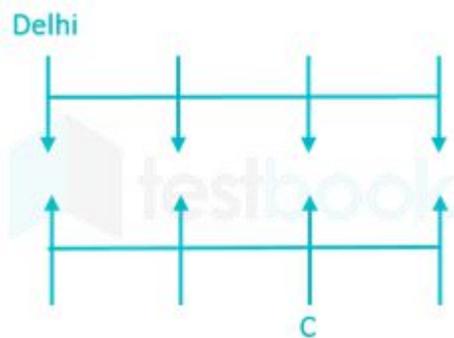
56. Persons: Row - 1: P, Q, R and S; Row - 2: A, B, C, and D.

Direction: South and North.

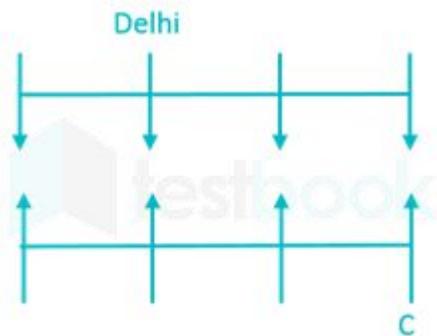
Places: Delhi, Jaipur, Patna, Pune, Mumbai, Chennai, Shillong and Surat.

1) The person from Delhi is second to the right of the person who faces C.

Case i)



Case ii)



2) The immediate neighbor of person from Delhi faces the person from Patna.

Case i)



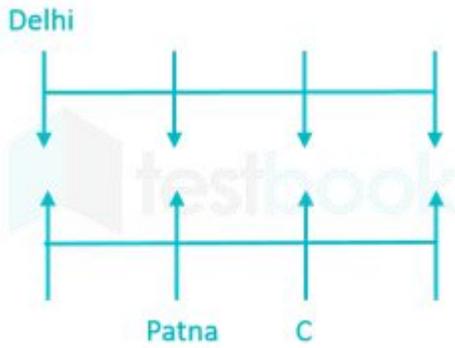
testbook **PASS**

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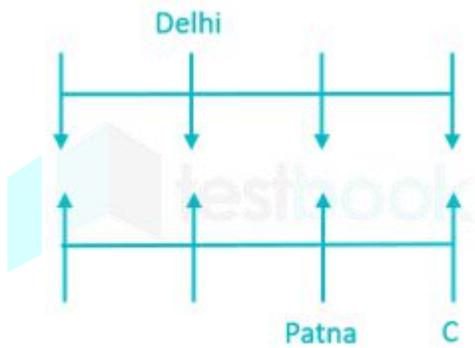
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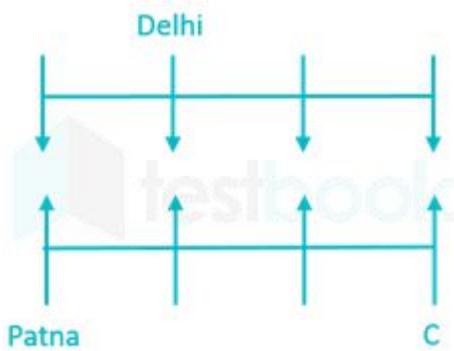


Case ii)

Case a)



Case b)



3) Only one person sits between person from Patna and B.



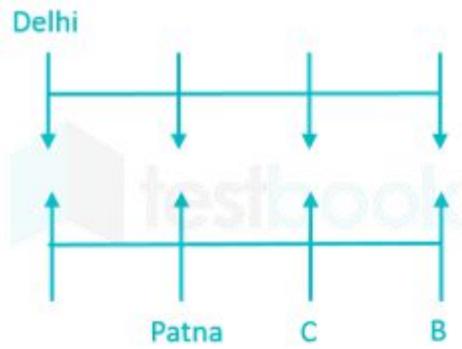
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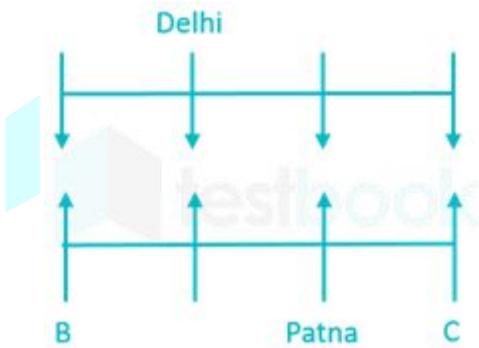
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Case i)

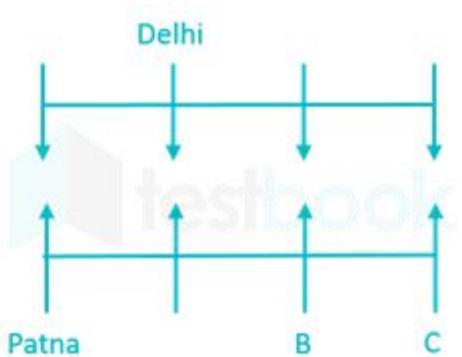


Case ii)

Case a)



Case b)



4) One who faces B is second to the left of P.



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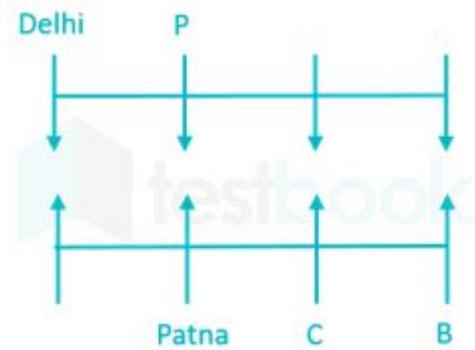
ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹599 FOR
1 YEAR

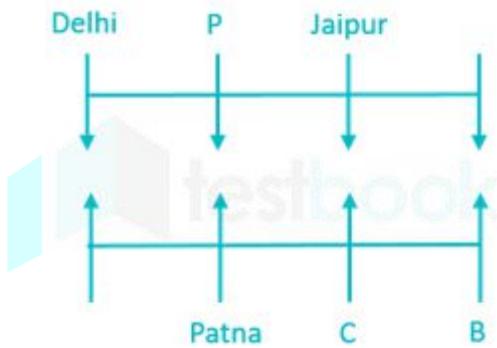
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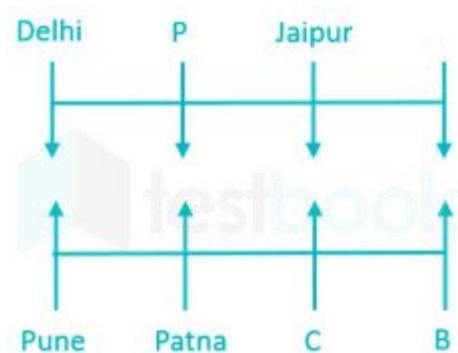
The above condition is not possible in case ii both cases a and b.



5) One who is immediate neighbor of B faces person from Jaipur.

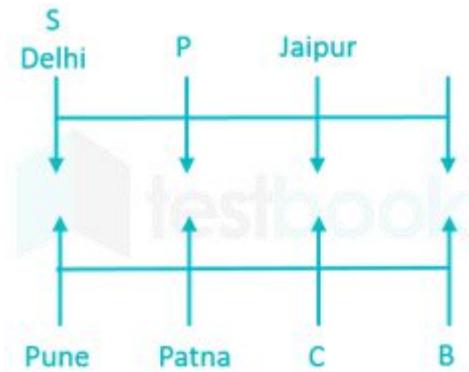


6) A person facing the person from Jaipur is second to the right of the person from Pune.

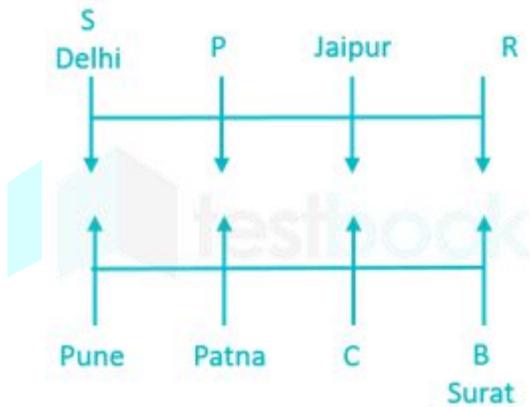




7) There is only one person between the person from Jaipur and S.



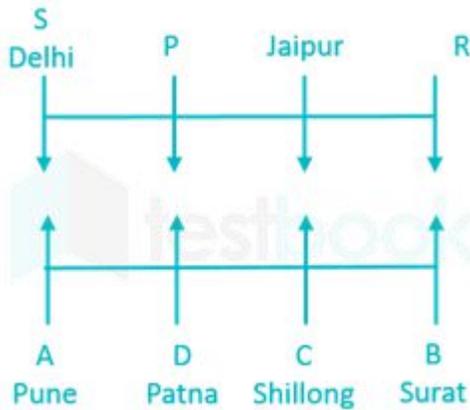
8) R faces the person from Surat. R is neither from Jaipur nor Mumbai.



9) The person who is immediate neighbor of D is from Shillong.

D is not an immediate neighbor of B.

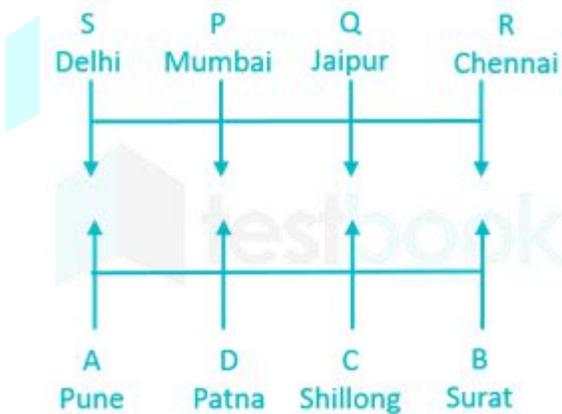




10) R is neither from Jaipur nor Mumbai.

Therefore, P is from Mumbai and R is from Chennai.

The final arrangement will be as shown below:



Hence, R and S sit at extreme ends of the line.

57. Persons: Row - 1: P, Q, R and S; Row - 2: A, B, C, and D.

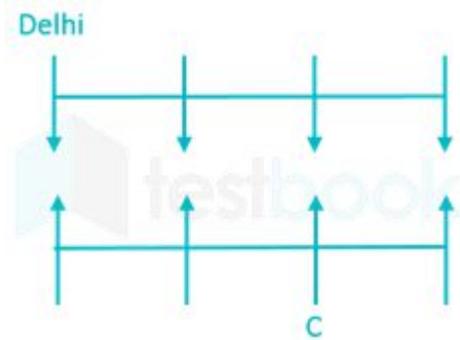
Direction: South and North.

Places: Delhi, Jaipur, Patna, Pune, Mumbai, Chennai, Shillong and Surat.

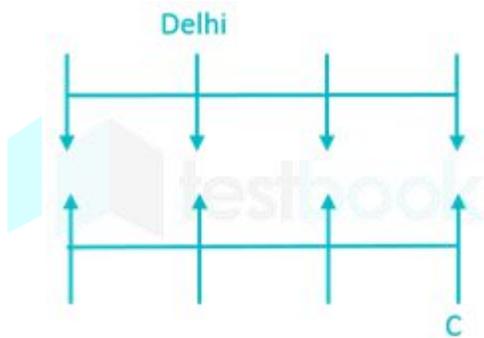


1) The person from Delhi is second to the right of the person who faces C.

Case i)

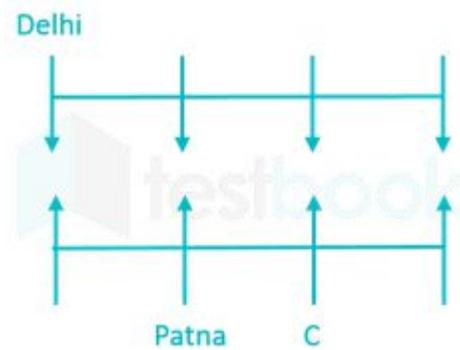


Case ii)



2) The immediate neighbor of person from Delhi faces the person from Patna.

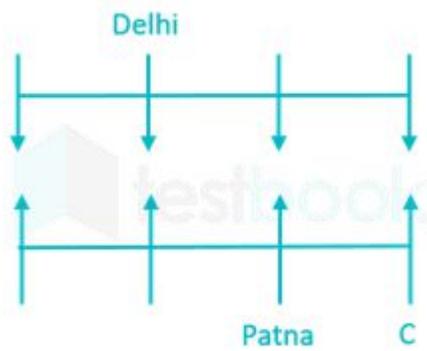
Case i)



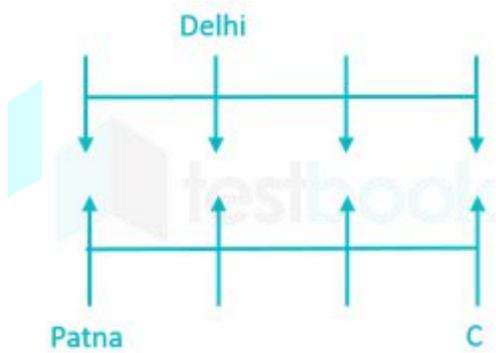


Case ii)

Case a)



Case b)



3) Only one person sits between person from Patna and B.

Case i)



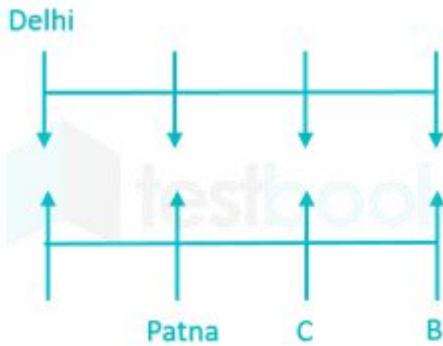
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹400 FOR
4 MONTHS

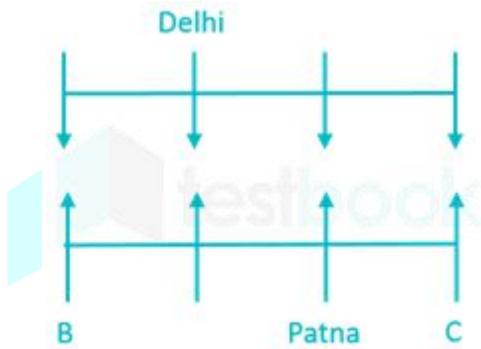
testbook

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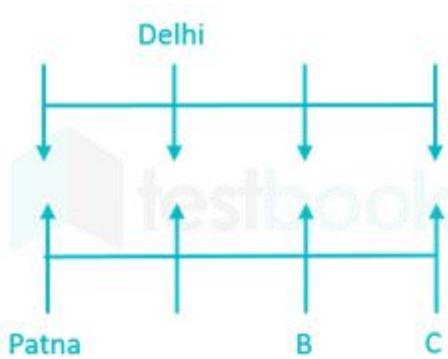


Case ii)

Case a)



Case b)



4) One who faces B is second to the left of P.

The above condition is not possible in case ii both cases a and b.



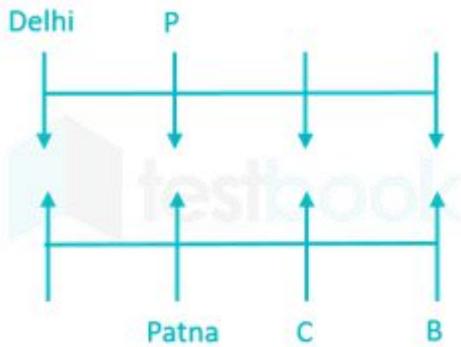
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

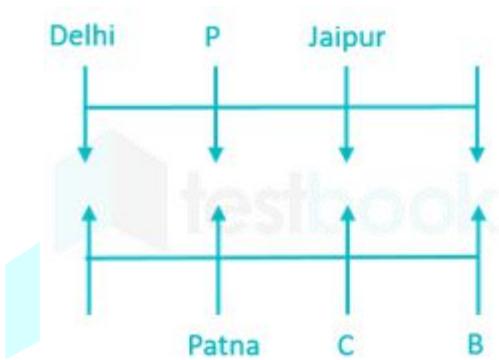
₹200 FOR
1 MONTH

testbook

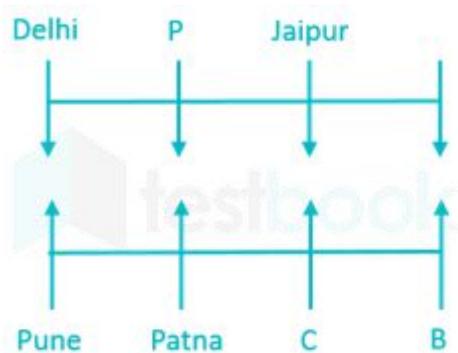
BUY NOW



5) One who is immediate neighbor of B faces person from Jaipur.



6) A person facing the person from Jaipur is second to the right of the person from Pune.



7) There is only one person between the person from Jaipur and S.



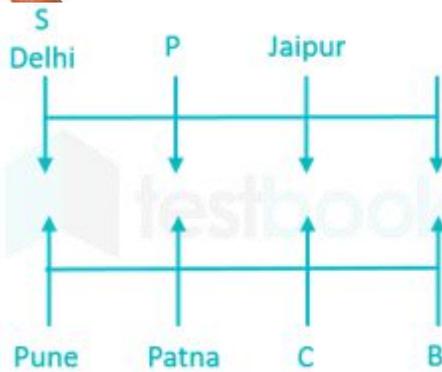
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

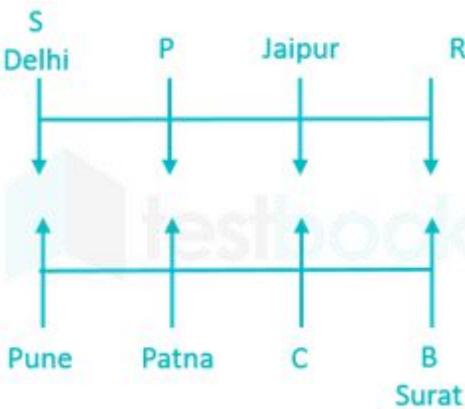
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testbook

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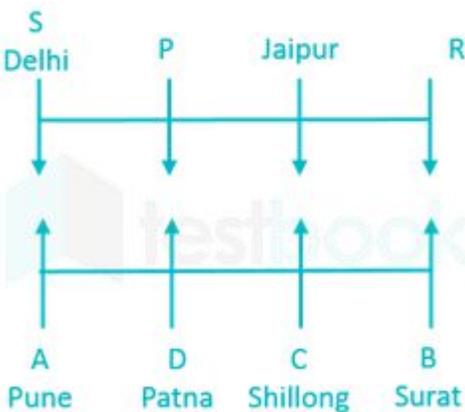


8) R faces the person from Surat. R is neither from Jaipur nor Mumbai.



9) The person who is immediate neighbor of D is from Shillong.

D is not an immediate neighbor of B.



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ACROSS ALL EXAMS

₹599 FOR
1 YEAR

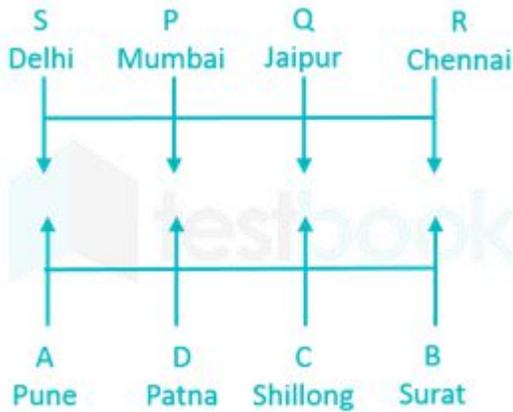
BUY NOW

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10) R is neither from Jaipur nor Mumbai.

Therefore, P is from Mumbai and R is from Chennai.

The final arrangement will be as shown below:



Hence, R is at the extreme right end of the row is not true.

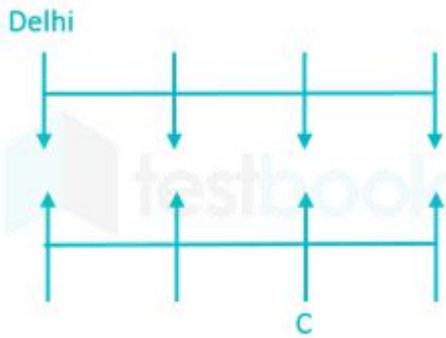
58. Persons: Row - 1: P, Q, R and S; Row - 2: A, B, C, and D.

Direction: South and North.

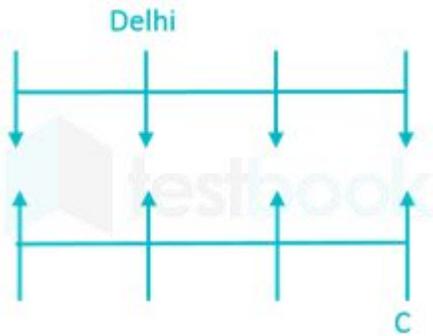
Places: Delhi, Jaipur, Patna, Pune, Mumbai, Chennai, Shillong and Surat.

1) The person from Delhi is second to the right of the person who faces C.

Case i)

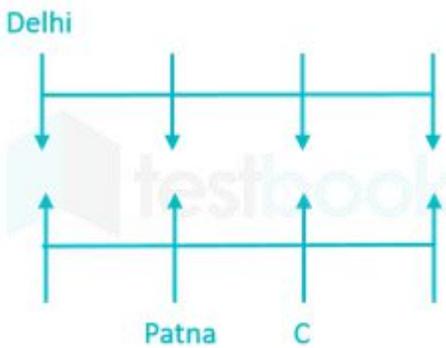


Case ii)



2) The immediate neighbor of person from Delhi faces the person from Patna.

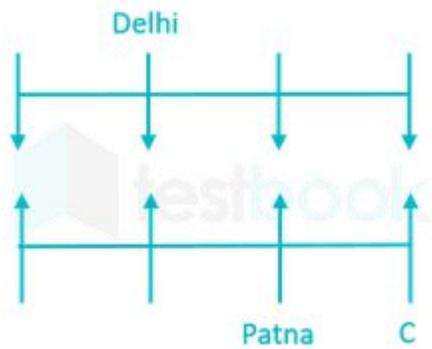
Case i)



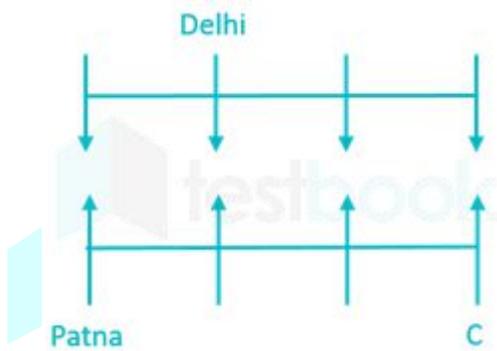
Case ii)

Case a)



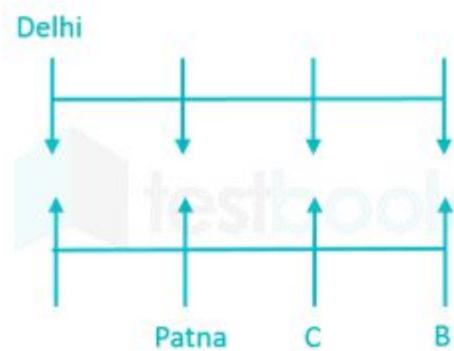


Case b)



3) Only one person sits between person from Patna and B.

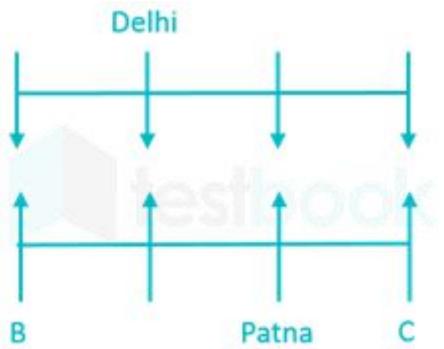
Case i)



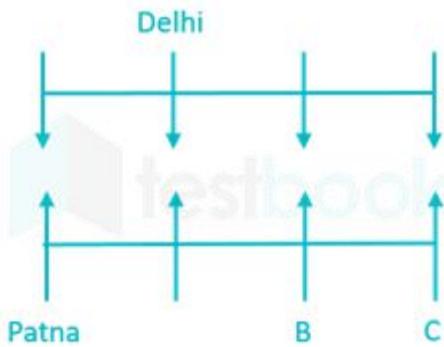
Case ii)



Case a)

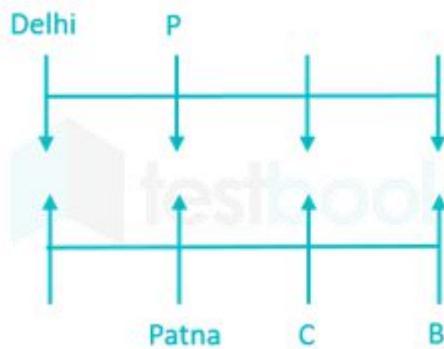


Case b)



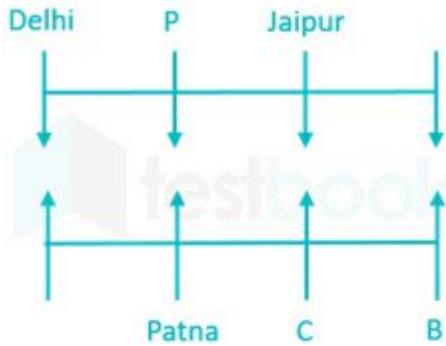
4) One who faces B is second to the left of P.

The above condition is not possible in case ii both cases a and b.

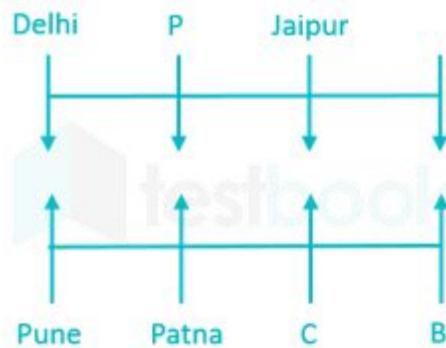


5) One who is immediate neighbor of B faces person from Jaipur.

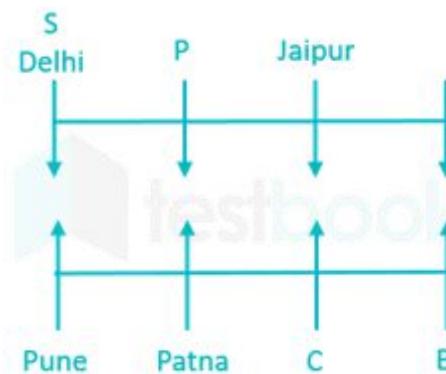




6) A person facing the person from Jaipur is second to the right of the person from Pune.



7) There is only one person between the person from Jaipur and S.



8) R faces the person from Surat. R is neither from Jaipur nor Mumbai.



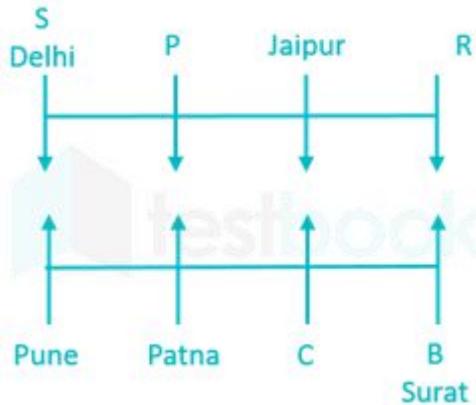
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹400 FOR
4 MONTHS

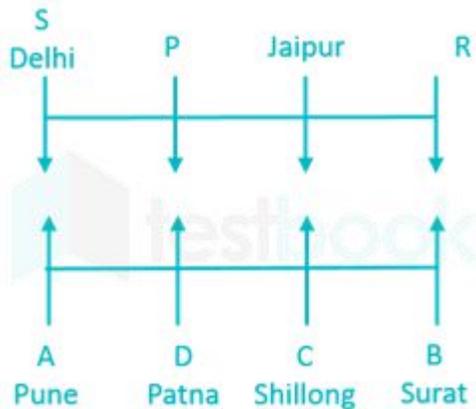
testbook

BUY NOW



9) The person who is immediate neighbor of D is from Shillong.

D is not an immediate neighbor of B.



10) R is neither from Jaipur nor Mumbai.

Therefore, P is from Mumbai and R is from Chennai.

The final arrangement will be as shown below:



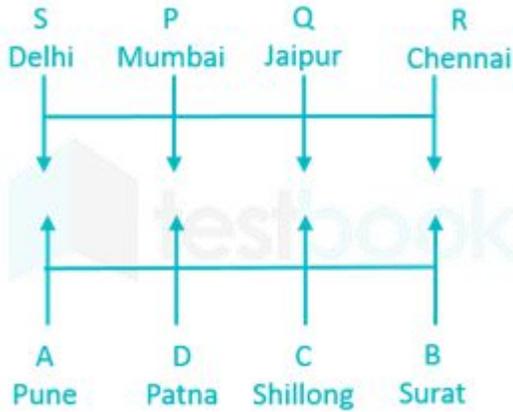
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹200 FOR
1 MONTH

testbook

BUY NOW



All except C, are sit at extreme ends of the row.

Hence, C doesn't belong to the group.

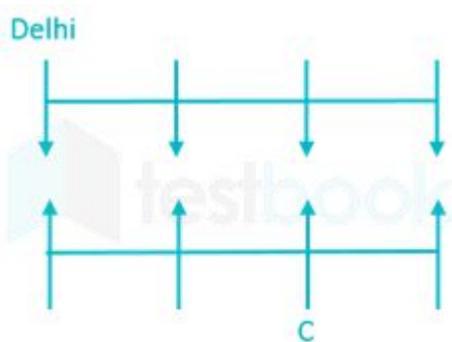
59. Persons: Row - 1: P, Q, R and S; Row - 2: A, B, C, and D.

Direction: South and North.

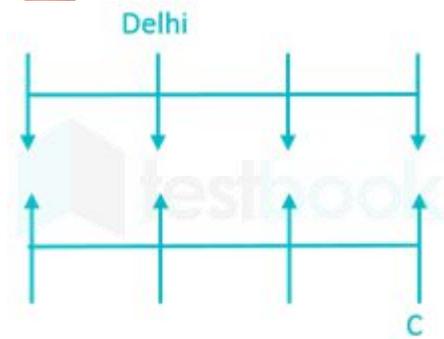
Places: Delhi, Jaipur, Patna, Pune, Mumbai, Chennai, Shillong and Surat.

1) The person from Delhi is second to the right of the person who faces C.

Case i)

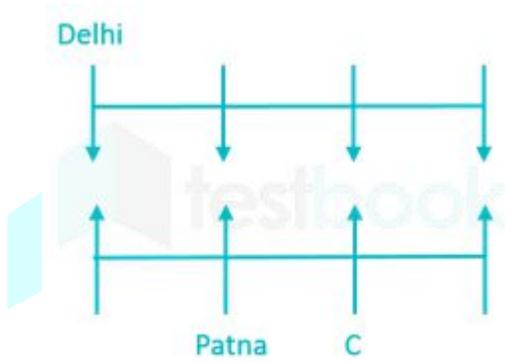


Case ii)



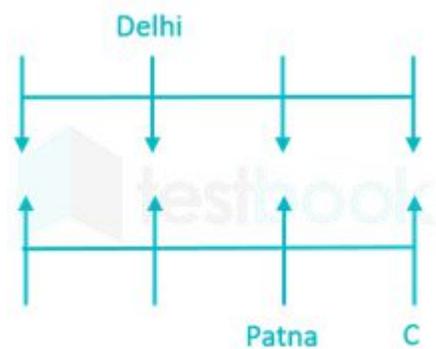
2) The immediate neighbor of person from Delhi faces the person from Patna.

Case i)



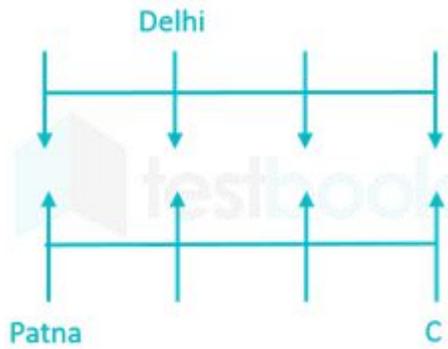
Case ii)

Case a)



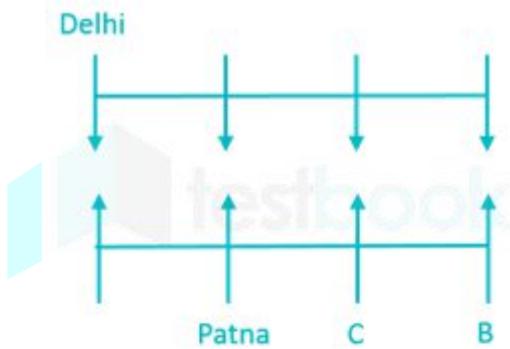
Case b)





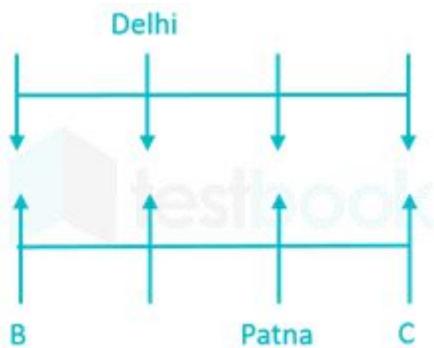
3) Only one person sits between person from Patna and B.

Case i)



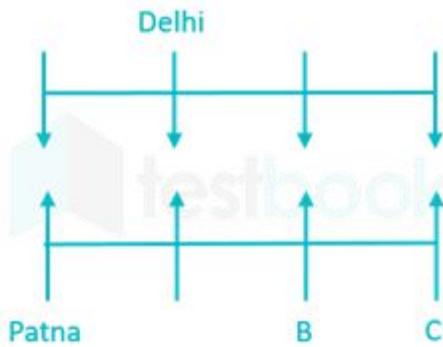
Case ii)

Case a)



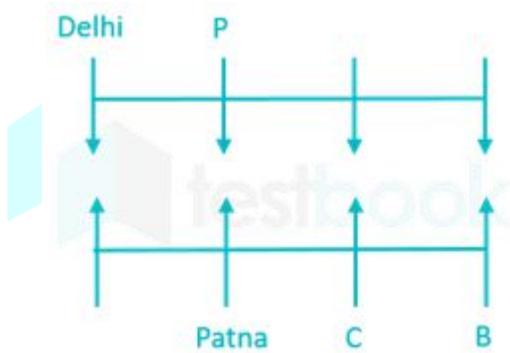


Case b)

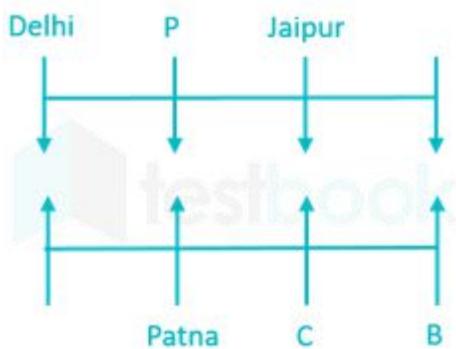


4) One who faces B is second to the left of P.

The above condition is not possible in case ii both cases a and b.



5) One who is immediate neighbor of B faces person from Jaipur.





testbook **PASS**

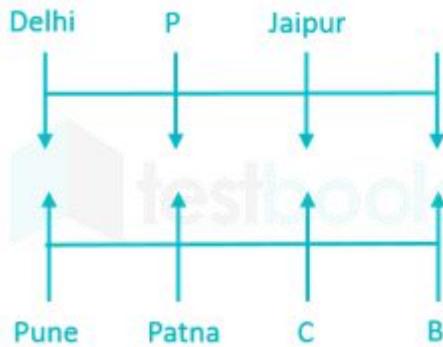
ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹599 FOR
1 YEAR

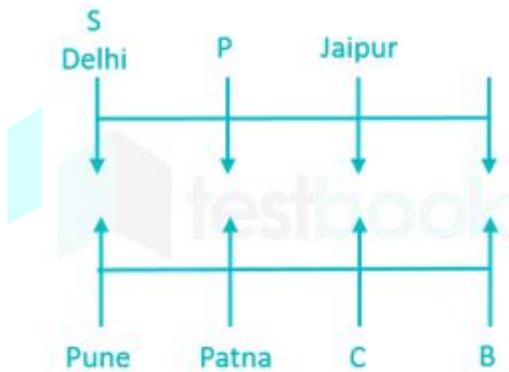
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6) A person facing the person from Jaipur is second to the right of the person from Pune.



7) There is only one person between the person from Jaipur and S.



8) R faces the person from Surat. R is neither from Jaipur nor Mumbai.





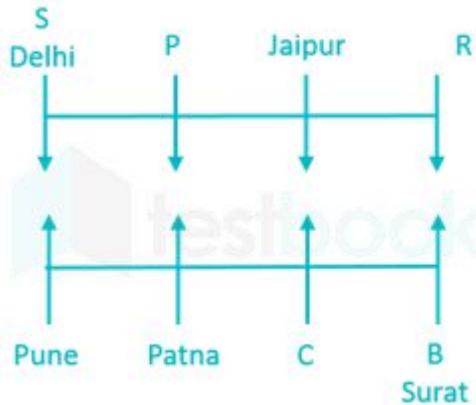
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹400 FOR
4 MONTHS

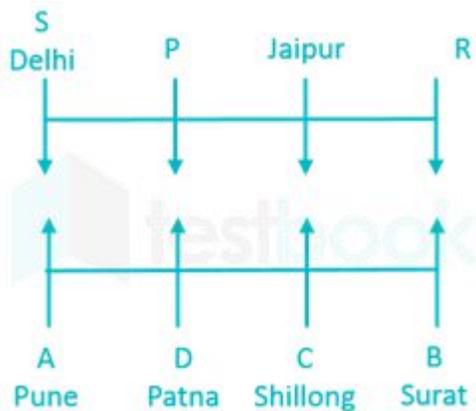
testbook

BUY NOW



9) The person who is immediate neighbor of D is from Shillong.

D is not an immediate neighbor of B.



10) R is neither from Jaipur nor Mumbai.

Therefore, P is from Mumbai and R is from Chennai.

The final arrangement will be as shown below:



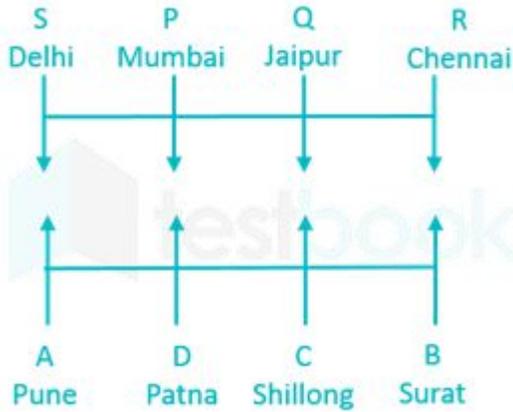
testbook **PASS**

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ACROSS ALL EXAMS

₹200 FOR
1 MONTH

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BUY NOW



Hence, R - Delhi is not true.

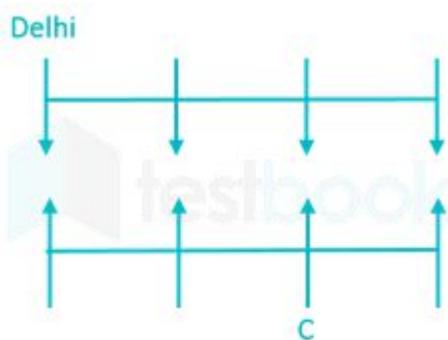
60. Persons: Row - 1: P, Q, R and S; Row - 2: A, B, C, and D.

Direction: South and North.

Places: Delhi, Jaipur, Patna, Pune, Mumbai, Chennai, Shillong and Surat.

1) The person from Delhi is second to the right of the person who faces C.

Case i)



Case ii)



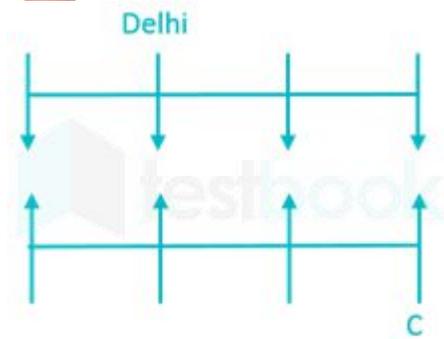
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹400 FOR
4 MONTHS

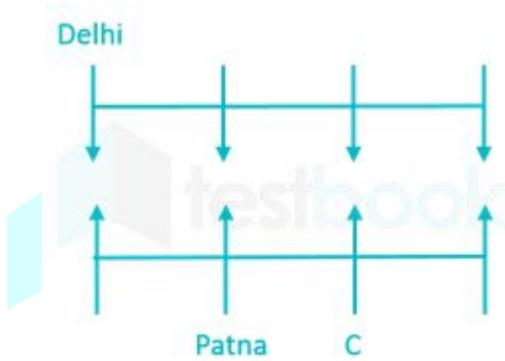
testbook

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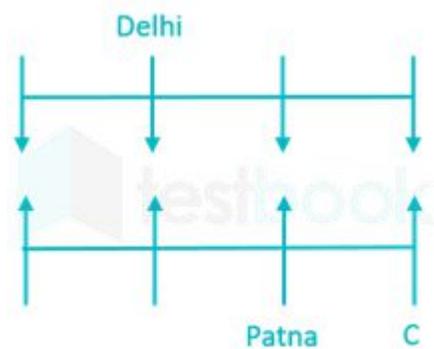
2) The immediate neighbor of person from Delhi faces the person from Patna.

Case i)



Case ii)

Case a)



Case b)



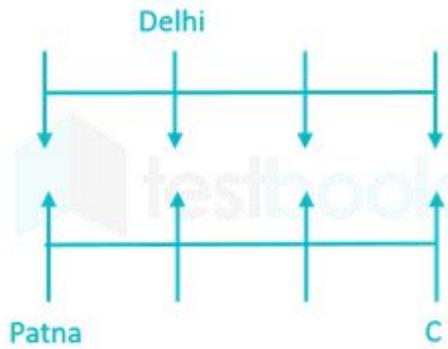
testbook **PASS**

ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹200 FOR
1 MONTH

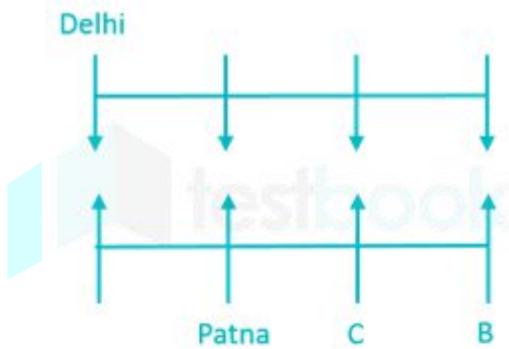
testbook

BUY NOW



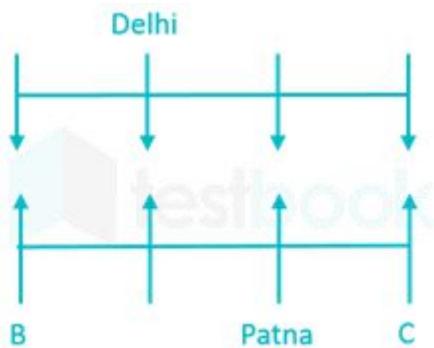
3) Only one person sits between person from Patna and B.

Case i)



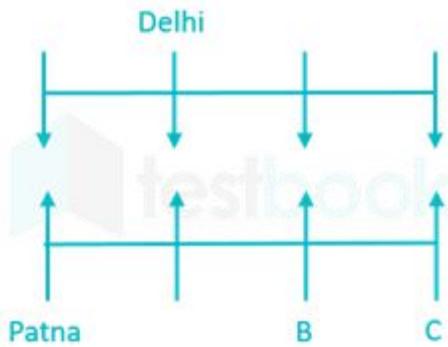
Case ii)

Case a)



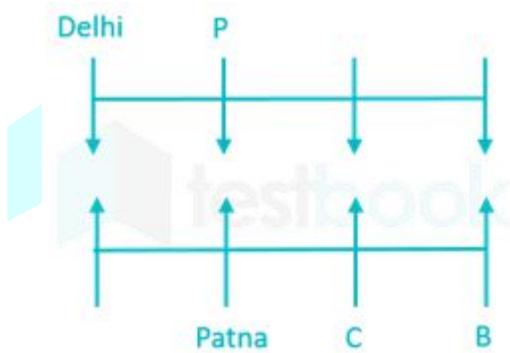


Case b)

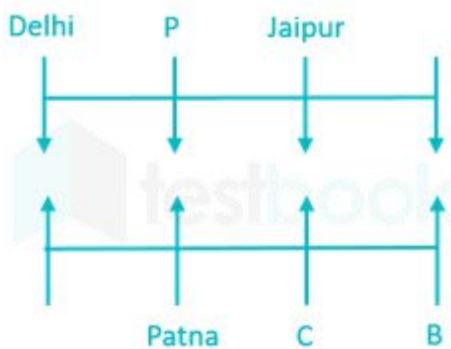


4) One who faces B is second to the left of P.

The above condition is not possible in case ii both cases a and b.



5) One who is immediate neighbor of B faces person from Jaipur.





testbook **PASS**

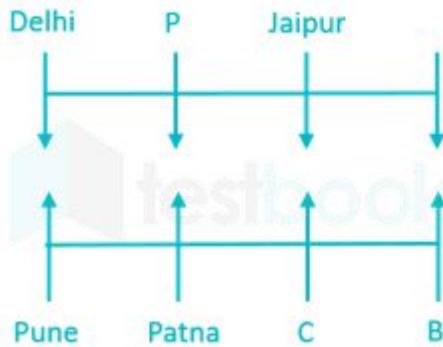
ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹599 FOR
1 YEAR

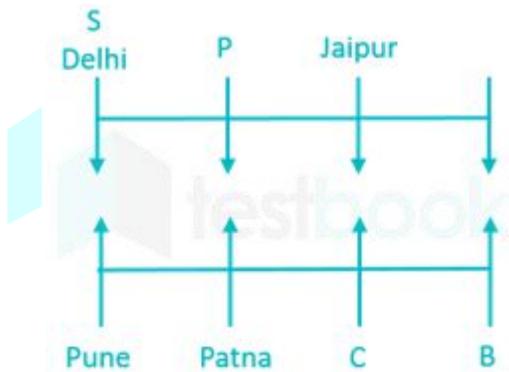
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6) A person facing the person from Jaipur is second to the right of the person from Pune.



7) There is only one person between the person from Jaipur and S.



8) R faces the person from Surat. R is neither from Jaipur nor Mumbai.





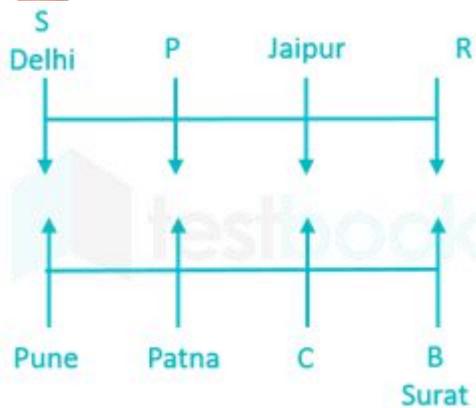
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ATTEMPT ALL TESTS
ACROSS ALL EXAMS

₹400 FOR
4 MONTHS

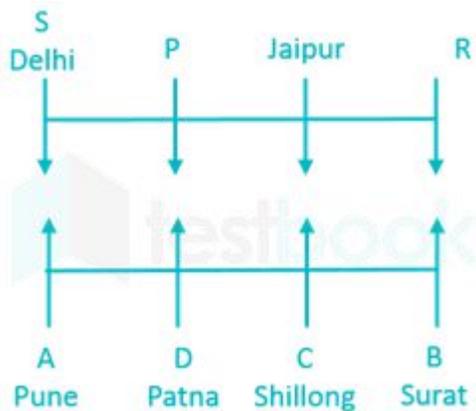
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9) The person who is immediate neighbor of D is from Shillong.

D is not an immediate neighbor of B.



10) R is neither from Jaipur nor Mumbai.

Therefore, P is from Mumbai and R is from Chennai.

The final arrangement will be as shown below:



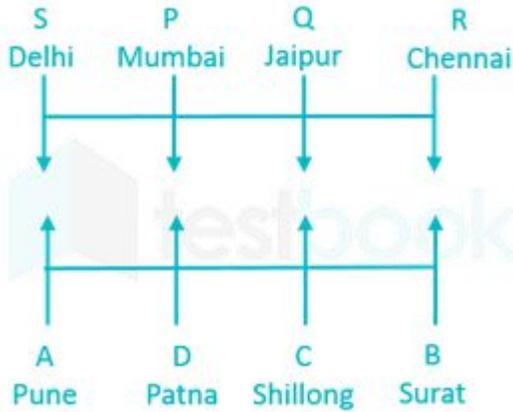
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Hence, A belongs to Pune.

61. Persons: P, Q, R, S, T, V, W and Z.

Destinations: Delhi, Hyderabad and Chennai.

Gender: Male and female.

Vehicles: Honda city, Swift and Ford.

1) T, a male, is travelling with only Z and they are not travelling to Chennai.

So, Z is a female. They are travelling to either Hyderabad or Delhi.

Person	Gender	Vehicle	Destination
P			
Q			
R			
S			
T	Male		Hyderabad/ Delhi



V			
W			
Z	Female		Hyderabad/ Delhi

2) P, a male, is travelling in Honda city to Hyderabad.

So, T and Z should travel to Delhi.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S			
T	Male		Delhi
V			
W			
Z	Female		Delhi

com

3) S is sister of P and travels by Ford.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			





R			
S	Female	Ford	
T	Male		Delhi
V			
W			
Z	Female		Delhi

4) R is not travelling with Q and W.

V and R travel together.

So, S, V and R should travel together and go to Chennai.

S is a female. So, V and R are male.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male		Delhi
V	Male	Ford	Chennai
W			
Z	Female		Delhi



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5) W does not travel to Chennai.

Therefore, P, Q and W travel together to Hyderabad.

T and Z travel in Swift.

The final arrangement will be as shown below:

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q	Male/ female	Honda city	Hyderabad
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male	Swift	Delhi
V	Male	Ford	Chennai
W	Male/ female	Honda city	Hyderabad
Z	Female	Swift	Delhi

Hence, members in Ford are travelling to Chennai.

62. Persons: P, Q, R, S, T, V, W and Z.

Destinations: Delhi, Hyderabad and Chennai.

Gender: Male and female.

Vehicles: Honda city, Swift and Ford.

82 | P - 9 -



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testbook

BUY NOW



1) T, a male, is travelling with only Z and they are not travelling to Chennai.

So, Z is a female. They are travelling to either Hyderabad or Delhi.

Person	Gender	Vehicle	Destination
P			
Q			
R			
S			
T	Male		Hyderabad/ Delhi
V			
W			
Z	Female		Hyderabad/ Delhi

2) P, a male, is travelling in Honda city to Hyderabad.

So, T and Z should travel to Delhi.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S			
T	Male		Delhi



V			
W			
Z	Female		Delhi

3) S is sister of P and travels by Ford.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S	Female	Ford	
T	Male		Delhi
V			
W			
Z	Female		Delhi

4) R is not travelling with Q and W.

V and R travel together.

So, S, V and R should travel together and go to Chennai.

S is a female. So, V and R are male.

Person	Gender	Vehicle	Destination
--------	--------	---------	-------------





P	Male	Honda city	Hyderabad
Q			
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male		Delhi
V	Male	Ford	Chennai
W			
Z	Female		Delhi

5) W does not travel to Chennai.

Therefore, P, Q and W travel together to Hyderabad.

T and Z travel in Swift.

The final arrangement will be as shown below:

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q	Male/ female	Honda city	Hyderabad
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male	Swift	Delhi
V	Male	Ford	Chennai



W	Male/ female	Honda city	Hyderabad
Z	Female	Swift	Delhi

Hence, four members are not travelling in any car.

63. Persons: P, Q, R, S, T, V, W and Z.

Destinations: Delhi, Hyderabad and Chennai.

Gender: Male and female.

Vehicles: Honda city, Swift and Ford.

1) T, a male, is travelling with only Z and they are not travelling to Chennai.

So, Z is a female. They are travelling to either Hyderabad or Delhi.

Person	Gender	Vehicle	Destination
P			
Q			
R			
S			
T	Male		Hyderabad/ Delhi
V			
W			
Z	Female		Hyderabad/ Delhi





2) P, a male, is travelling in Honda city to Hyderabad.

So, T and Z should travel to Delhi.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S			
T	Male		Delhi
V			
W			
Z	Female		Delhi

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3) S is sister of P and travels by Ford.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S	Female	Ford	
T	Male		Delhi
V			



W			
Z	Female		Delhi

4) R is not travelling with Q and W.

V and R travel together.

So, S, V and R should travel together and go to Chennai.

S is a female. So, V and R are male.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male		Delhi
V	Male	Ford	Chennai
W			
Z	Female		Delhi

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5) W does not travel to Chennai.

Therefore, P, Q and W travel together to Hyderabad.

T and Z travel in Swift.

The final arrangement will be as shown below:





Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q	Male/ female	Honda city	Hyderabad
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male	Swift	Delhi
V	Male	Ford	Chennai
W	Male/ female	Honda city	Hyderabad
Z	Female	Swift	Delhi

Gender of Q and W is can't be determined.

Hence, the three female members can't be determined.

64. Persons: P, Q, R, S, T, V, W and Z.

Destinations: Delhi, Hyderabad and Chennai.

Gender: Male and female.

Vehicles: Honda city, Swift and Ford.

1) T, a male, is travelling with only Z and they are not travelling to Chennai.

So, Z is a female. They are travelling to either Hyderabad or Delhi.

Person	Gender	Vehicle	Destination
--------	--------	---------	-------------



P			
Q			
R			
S			
T	Male		Hyderabad/ Delhi
V			
W			
Z	Female		Hyderabad/ Delhi

2) P, a male, is travelling in Honda city to Hyderabad.

So, T and Z should travel to Delhi.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S			
T	Male		Delhi
V			
W			
Z	Female		Delhi





3) S is sister of P and travels by Ford.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R			
S	Female	Ford	
T	Male		Delhi
V			
W			
Z	Female		Delhi

4) R is not travelling with Q and W.

V and R travel together.

So, S, V and R should travel together and go to Chennai.

S is a female. So, V and R are male.

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q			
R	Male	Ford	Chennai
S	Female	Ford	Chennai



T	Male		Delhi
V	Male	Ford	Chennai
W			
Z	Female		Delhi

5) W does not travel to Chennai.

Therefore, P, Q and W travel together to Hyderabad.

T and Z travel in Swift.

The final arrangement will be as shown below:

Person	Gender	Vehicle	Destination
P	Male	Honda city	Hyderabad
Q	Male/ female	Honda city	Hyderabad
R	Male	Ford	Chennai
S	Female	Ford	Chennai
T	Male	Swift	Delhi
V	Male	Ford	Chennai
W	Male/ female	Honda city	Hyderabad
Z	Female	Swift	Delhi

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Hence, T and Z are travelling in Swift.

65. Words that can be formed using letters A, T, H, R and E starting with D ⇒ Dearth.





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Hence, one such word can be formed.

66. Follow BODMAS rule to solve this question, as per the order given below,
Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Given expression is,

$$\Rightarrow 81.84 + 145.87 + 15.64 = 90.003 + 35.88 + ?$$

$$\Rightarrow 82 + 146 + 16 = 90.003 + 35.88 + ?$$

$$\Rightarrow 244 = 90 + 36 + ?$$

$$\Rightarrow 244 = 126 + ?$$

$$\Rightarrow ? = 244 - 126$$

$$\therefore ? = 118$$

67. Follow BODMAS rule to solve this question, as per the order given below,
Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Given expression is,

$$\Rightarrow (12.90\% \text{ of } 4800) \div 26 = 5.94\% \text{ of } ?$$



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$$\Rightarrow (13\% \text{ of } 4800) \div 26 = 6\% \text{ of } ?$$

$$\Rightarrow \left(\frac{13}{100} \times 4800\right) \div 26 = \frac{6}{100} \times ?$$

$$\Rightarrow 624 \div 26 = (6 \times ?)/100$$

$$\Rightarrow 24 \times 100 = 6 \times ?$$

$$\therefore ? = 400$$

Follow BODMAS rule to solve this question, as per the order given below,

68. Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Given expression is,

$$\Rightarrow (365.27 + 76.01)^{\frac{1}{2}} \div 6.89 = \frac{3 \times ?}{2}$$

$$\Rightarrow (365 + 76)^{\frac{1}{2}} \div 6.89 = \frac{3 \times ?}{2}$$

$$\Rightarrow (441)^{\frac{1}{2}} \div 7 = \frac{3 \times ?}{2}$$

$$\Rightarrow 21 \div 7 = \frac{3 \times ?}{2}$$

$$\Rightarrow 3 = (3 \times ?)/2$$

$$\therefore ? = 2$$

69. Rules of Approximation:



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1. If a number has digits to the right of the decimal less than 5, then just drop the digits to the right of the decimal. The number hence obtained will be the approximated value.

2. If a number has digits to the right of the decimal more than 5, then just drop the digits to the right of the decimal and raise the remaining number by '1'.

The number hence obtained will be the approximated value.

Using the same approach we will solve the given expression:

$$\Rightarrow 89.01 - 23.76 + 46.83 - 23.92 + 46.908 = ?$$

$$\Rightarrow 89 - 24 + 47 - 24 + 47 = ?$$

$$\Rightarrow 89 + 47 + 47 - 24 - 24 = ?$$

$$\Rightarrow 183 - 48 = ?$$

$$\Rightarrow 135 = ?$$

70. Rules of Approximation:

1. If a number have digits to the right of the decimal less than 5. Then just drop the digits to the right of the decimals. The number so obtained will be the approximated value.

2. If a number have digits to the right of the decimal more than 5. Then just drop the digits to the right of the decimals and raise the remaining number by '1'.

The number so obtained will be the approximated value.

Using the same approach we will solve given expression:

$$\Rightarrow 63.706 \times 2.3 + 46.408 \times 3.8 - 23.692 \times 4.6 = ?$$

$$\Rightarrow 64 \times 2 + 46 \times 4 - 24 \times 5 = ?$$

$$\Rightarrow 128 + 184 - 120 = ?$$

$$\Rightarrow 312 - 120 = ?$$

$$\Rightarrow 192 = ?$$

71. Given expression,



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$$\Rightarrow \frac{9}{13} \text{ of } 2197 + \frac{3}{7} \text{ of } 1155 = ?$$

$$\Rightarrow \frac{9}{13} \times 2197 + \frac{3}{7} \times 1155 = ?$$

$$\Rightarrow 9 \times 169 + 3 \times 165 = ?$$

$$\Rightarrow 1521 + 495 = ?$$

$$\Rightarrow ? = 2016$$

72. Follow BODMAS rule to solve this question, as per the order given below,
Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket, the BODMAS rule must be followed,
Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,
Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,
Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Given expression is,

$$\Rightarrow 78\% \text{ of } \sqrt{518400} \div 2.34 = ? \times 1.5$$

$$\Rightarrow 78\% \text{ of } 720 \div 2.34 = ? \times 1.5$$

$$\Rightarrow (0.78 \times 720) / 2.34 = ? \times 1.5$$

$$\Rightarrow 561.6 / 2.34 = ? \times 1.5$$

$$\Rightarrow ? = 240 / 1.5$$

$$\therefore ? = 160$$

73. Follow BODMAS rule to solve this question, as per the order given below,
Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,
Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,
Step-3: Next, the parts of the equation that contains 'Division' and 'Multiplication' are calculated,



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Step-4: Last but not least, the parts of the equation that contains 'Addition' and 'Subtraction' should be calculated.

Given expression is,

$$\Rightarrow (9 \times 4.5 + 11 \times 5.5) + (15 \times 7.2) = 225 - ?$$

$$\Rightarrow (40.5 + 60.5) + (108) = 225 - ?$$

$$\Rightarrow 101 + 108 = 225 - ?$$

$$\Rightarrow ? = 225 - 209 = 16$$

$$\Rightarrow ? = 16$$

74. Follow BODMAS rule to solve this question, as per the order given below,

Step-1: **Parts of an equation enclosed in 'Brackets' must be solved first.**

Step-2: **Any mathematical 'Of' or 'Exponent' must be solved next.**

Step-3: **Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated.**

Step-4: **Last but not the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.**

Given expression:

$$\Rightarrow \left[\left\{ \left(5 + \frac{7}{6} \right) \times \left(\frac{36}{5} \right) \right\} \div \left(7 + \frac{2}{5} \right) \right] + 6 = ?$$

$$\Rightarrow \left[\left\{ \left(\frac{30+7}{6} \right) \times \left(\frac{36}{5} \right) \right\} \div \left(\frac{35+2}{5} \right) \right] + 6 = ?$$

$$\Rightarrow \left[\left\{ \left(\frac{37}{6} \right) \times \left(\frac{36}{5} \right) \right\} \div \left(\frac{37}{5} \right) \right] + 6 = ?$$

$$\Rightarrow \left[\left\{ \frac{37}{6} \times \frac{36}{5} \right\} \div \left(\frac{37}{5} \right) \right] + 6 = ?$$

$$\Rightarrow \left[\left\{ \frac{37 \times 6}{5} \right\} \div \left(\frac{37}{5} \right) \right] + 6 = ?$$

$$\Rightarrow \left[\frac{37 \times 6}{5} \times \frac{5}{37} \right] + 6 = ?$$

$$\Rightarrow 6 + 6 = ?$$

$$\Rightarrow 12 = ?$$



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75. Follow BODMAS rule to solve this question, as per the order given below,
 Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,
 Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,
 Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,
 Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Given expression is,

$$\Rightarrow 7.2\% \text{ of } 800 + 11.5\% \text{ of } 600 = 112 + 1.4\% \text{ of } ?$$

$$\Rightarrow \frac{7.2}{100} \times 800 + \frac{11.5}{100} \times 600 = 112 + \frac{1.4}{100} \times ?$$

$$\Rightarrow 7.2 \times 8 + 11.5 \times 6 = 121 + (1.4/100) \times ?$$

$$\Rightarrow 57.6 + 69 = 121 + (1.4/100) \times ?$$

$$\Rightarrow 126.6 - 121 = (1.4/100) \times ?$$

$$\Rightarrow 5.6 \times 100 = 1.4 \times ?$$

$$\Rightarrow 400 = ?$$

$$\Rightarrow ? = 400$$

76. Proportion of magazines subscribed monthly to annually in Mujnesar = 1 : 2
 The annual subscription for magazine in Mujnesar = 1.5 million.
 \therefore Total magazine subscription in that area = $1.5 \times (3/2) = 2.25$ million
 Percentage of household having magazine subscription in Mujnesar = 50%
 \therefore Percentage of household having newspaper subscription in Mujnesar = 50% =
 2.25 million
 \therefore Annual newspaper subscription in that area = $(3/5) \times 2.25 = 1.35$ million

77. The annual newspaper subscription in Neville = 5.7 million



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∴ The total number of newspaper subscriptions both annually and monthly in that area

$$= 5.7 \times (5/2) = 14.25 \text{ million} = 40 \% \text{ of total number of households}$$

∴ The total number of magazine subscriptions both annually and monthly in that area

$$= 14.25 \times (3/2) = 21.375 \text{ million}$$

$$\text{Total number of annual magazine subscription in that area} = 21.375 \times (3/8) = 8.015625 \text{ million}$$

∴ Total number of annual subscriptions of both newspapers and magazines in Neville

$$= 5.7 + 8.015625 = 13.715625 \text{ million}$$

78. The total number of household in Lalbagh = 42 million

$$\therefore \text{Total number of magazine subscriptions in that area} = 0.48 \times 42 = 20.16 \text{ million}$$

$$\therefore \text{Total number of annual magazine subscription} = (5/8) \times 20.16 = 12.6 \text{ million}$$

79. The monthly magazine subscription for Jainagar = 105 million

$$\therefore \text{Annual magazine subscription for Jainagar} = 105 \times 4 = 420 \text{ million}$$

80. Number of newspaper subscription for Kamlanagar = 3.6 million = 62% of total no. of households

$$\therefore \text{Total number of households in Kamlanagar} = 3.6/0.62 = 5.81 \text{ million}$$

Number of newspaper subscription in Neville = 12 million = 40% of total no. of households

$$\therefore \text{Total number of households in Neville} = 12/0.4 = 30 \text{ million}$$

$$\therefore \text{Required Ratio} = 6 : 31$$

81. Let us assume that his average till 15 innings be 'm'

99 | Page



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Runs scored by him in 15 innings = $15 \times m$ (\because Average = Sum of observations/No. of observations)

Then he scores 65 and 75 runs in 16th and 17th innings respectively

\therefore New average = $m + 5 = (15m + 65 + 75)/17$

$\Rightarrow m + 5 = (15m + 140) / 17$

$\Rightarrow 17(m + 5) = (15m + 140)$

$\Rightarrow 17m + 85 = 15m + 140$

$\Rightarrow 2m = 140 - 85 = 55$

$\Rightarrow m = 55/2 = 27.5$

\therefore His average till 15 innings will be 27.5

82. Let S.P of 1 note-book = Rs m

Then S.P of 12 note-books = Rs. $(m \times 12) =$ Rs. $12m$

Now, we are given that profit on 12 note-books = Rs. $2m$

Hence, CP of 12 note-books = SP of 12 note-books - Profit on 12 note-books

\Rightarrow CP = $12m - 2m = 10m$

Profit percentage = $(\text{Profit} \times 100)/\text{CP}$

$\Rightarrow (2m \times 100)/10m = 20\%$

83. Let the marks secured by the student in 3 different subjects be $4x$, $9x$ and $12x$ respectively.

Marks secured in subject A after an increase 20% = $4x + (20\% \text{ of } 4x) = 4.8x$

Marks secured in subject B after an increase 36% = $9x + (36\% \text{ of } 9x) = 12.24x$

Marks secured in subject C after an increase 25% = $12x + (25\% \text{ of } 12x) = 30x$

New ratio = $4.8x : 12.24x : 30x = 480 : 1224 : 3000 = 40 : 102 : 250$

\therefore New ratio = $40 : 102 : 250$

84. Length of 5 leaps of monkey = Distance covered in 6 steps by man



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Ratio of length covered by monkey to man in one step = 6 : 5

Frequency of taking steps:

When monkey leaps 5 times, man takes 7 steps.

∴ Ratio of frequency of taking steps of monkey to man = 5 : 7

Now, ratio of speed of man to monkey = combined ratio = $(5 \times 7) : (6 \times 5)$
= 7 : 6

85. The pattern for the given series:

$$\Rightarrow 559 - 40 = 519$$

$$\Rightarrow 519 - 42 = 477$$

$$\Rightarrow 477 - 44 = 433$$

$$\Rightarrow 433 - 46 = 387 = ?$$

86. The pattern for the given series:

$$\Rightarrow 20 \times 6 = 1 \times 6 = 6$$

$$\Rightarrow 31 \times 6 = 3 \times 6 = 18$$

$$\Rightarrow 42 \times 6 = 16 \times 6 = 96$$

$$\Rightarrow 53 \times 6 = 125 \times 6 = 750 = ?$$

$$\Rightarrow 64 \times 6 = 1296 \times 6 = 7776$$

87. The pattern of the given series is:

$$\Rightarrow (8 \times 3) - 5 = 19$$

$$\Rightarrow (19 \times 3) - 5 = 52$$



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$$\Rightarrow (52 \times 3) - 5 = 151$$

$$\Rightarrow (151 \times 3) - 5 = 448 = ?$$

88. The pattern of the given series:

$$\Rightarrow 14 \times 4 - 10 = 56 - 10 = 46$$

$$\Rightarrow 15 \times 5 - 10 = 75 - 10 = 65$$

$$\Rightarrow 16 \times 6 - 10 = 96 - 10 = 86$$

$$\Rightarrow 17 \times 7 - 10 = 119 - 10 = 109$$

$$\Rightarrow 18 \times 8 - 10 = 144 - 10 = 134 = ?$$

89. The pattern of the given series:

$$\Rightarrow \frac{48252}{1} - 3 = 48249$$

$$\Rightarrow \frac{48249}{3} - 3 = 16080$$

$$\Rightarrow \frac{16080}{5} - 3 = 3213$$

$$\Rightarrow \frac{3213}{7} - 3 = ? = 456$$

90. The pattern of the given series:

Cost of single orange = Rs. 20

Cost of dozen at same rate = $20 \times 12 =$ Rs. 240

Cost of buying dozen at discount rate = Rs. 200

Discount = $240 - 200 =$ Rs. 40



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$$\therefore \text{Discount \%} = (40/240) \times 100 = 16.6 \approx 17\%$$

91. Let the total profit = x

The remaining profit after paying 30% commission to the working partner = (x – 9000).

Since 30% of this is the working partner's commission,

$$\therefore 0.3 \times (x - 9000) = 9000$$

$$\Rightarrow x = \text{Rs. } 39,000$$

92. Formula for Simple Interest –

$$SI = \frac{P \times R \times T}{100}$$

Where,

P = Principal

R = Rate of interest

T = Time period

Let the sum be Rs. x and the original rate be R%,

$$\text{Then, } SI = \frac{X \times R \times 3}{100}$$

According to the question, the difference between the two equations is Rs. 27

$$\therefore \frac{X \times (R+3) \times 3}{100} - \frac{X \times R \times 3}{100} = 27$$





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$$\Rightarrow \frac{3XR + 9X - 3XR}{100} = 27$$

$$\Rightarrow \frac{9X}{100} = 27$$

$$\Rightarrow 9X = 2700$$

$$\Rightarrow X = 2700/9$$

$$\Rightarrow X = 300$$

∴ The sum is of Rs. 300.

93. Speed of the man = 8 km/h

Speed of the river = 2 km/h

Let the distance of the place be x km.

Time taken to go to the place = $x/(8 + 2) = x/10$

Time taken to return = $x/(8 - 2) = x/6$

$$\Rightarrow (x/6) + (x/10) = 24/60$$

$$\Rightarrow 16x = 24$$

$$\Rightarrow x = 1.5 \text{ km}$$

94. Given,

A pipe can fill the tank in 42 minutes,

∴ In a minute part of a tank gets filled is = $1/42$

Total time required to fill the tank due to leak is = $(42 + 14) = 56$ minutes



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∴ In a minute part of a tank filled due to leak = $1/56$

In a minute part of a tank emptied due to leak is

$$\Rightarrow (1/42) - (1/56) = 1/168$$

∴ Time required to emptied the tank is 168 minutes.

Required ratio = $42 : 168 = 1 : 4$

∴ The ratio between the time required for pipe to fill the tank and time required for leak to empty the tank is $1 : 4$

95. We require = $\frac{33 \times 41 \times 50}{8} = \frac{(8 \times 4 + 1) \times (8 \times 5 + 1) \times (8 \times 6 + 2)}{8}$

In this type of question, remained only depends on 1, 1 and 2, i.e $1 \times 1 \times 2 = 2$

The remainder will be 2.

96. Distance between A and B = $5 \times 40 = 200$ miles

Speed from B to A = $40 + 25\% \text{ of } 40 = 40 + 10 = 50$ mph

Time taken from B to A = $200/50 = 4$ hours

∴ Average speed = $(200 + 200)/(5 + 4) = 400/9 = 44.44$ mph

97. Total number of balls = $5 + 8 + 10 = 23$

Let S be the sample space





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$n(S) = \text{Number of ways of drawing 3 balls from 23} = {}^{23}C_3 = (23 \times 22 \times 21)/(3 \times 2 \times 1) = 1771$

Let E be the event of getting all the three balls black

$\therefore n(E) = {}^5C_3 = {}^5C_2 = (5 \times 4)/2 = 10$

$\therefore P(E) = n(E)/n(S) = 10/1771$

98. Let the length and breadth of a rectangle be l and b in meters respectively.

Given,

The length and breadth of rectangle are in the ratio 4 : 7

$\Rightarrow l : b = 4 : 7$

$\Rightarrow l = 4b/7$ ---(1)

Given,

The area of rectangle is 252 m²,

$\Rightarrow l \times b = 252 \text{ m}^2$ ---(2)

Solving equation (1) and (2), we get

$\Rightarrow (4b/7) \times b = 252$

$\Rightarrow (b)^2 = 252 \times 7/4 = 441$

$\Rightarrow b = 21 \text{ m}$

$\Rightarrow l = 4b/7 = 4(21)/7$

$\Rightarrow l = 12 \text{ m}$

Perimeter of a rectangle = 2(l + b)



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$$\Rightarrow 2(12 + 21) = 66 \text{ m}$$

\therefore Perimeter of a rectangle is 66 m.

99. Let the two-digit number be $10x + y$.

Given,

$$\Rightarrow 10x + y = 8(x + y)$$

$$\Rightarrow 10x + y = 8x + 8y$$

$$\Rightarrow 2x - 7y = 0 \text{ ---(1)}$$

$$\Rightarrow 10x + y - 45 = 10y + x$$

$$\Rightarrow 9x - 9y = 45$$

$$\Rightarrow x - y = 5 \text{ ----(2)}$$

Multiply equation (2) by 2

$$\Rightarrow 2x - 2y = 10 \text{ ----(3)}$$

Subtract equation (3) from (1)

$$\Rightarrow -5y = -10$$

$$\Rightarrow y = 2$$

Put value of y in equation (2)

$$\Rightarrow x - 2 = 5$$

$$\Rightarrow x = 7$$

The number = $10x + y$





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$$\Rightarrow 10 \times 7 + 2 = 72$$

∴ The two-digit number is 72.

100. Speed of train A = 72 km/h = $72 \times (5/18) = 20$ m/sec

Distance travelled by train A = $20 \times 72 = 1440$ m

(∴ Distance = Speed \times Time)

Speed of train B = 60 km/h = $60 \times (5/18) = (50/3)$ m/sec

Distance travelled by train B = $1440 - 240 = 1200$ m

Time taken by train B to cross the bridge = $1200 / (50/3) = 72$ sec

∴ Time taken by train B to cross the bridge = 72 sec

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