RRB Clerk Pre 2022 (13th August) Shift-Wise Previous Year Papers Mock 07

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

Eight persons are living in eight floors of a building. Ground floor is numbered as 1 and topmost floor is numbered as 8.

V lives on an even numbered floor above 4th floor. Three persons live between V and U. Two persons live between R and Q who lives below the R's floor. Q does not live on ground floor. Three persons live between P and T who lives above U's floor. The number of persons live below P is same as the number of persons live above S. W does not live below P's floor.

Q1. Who among the following person lives immediate above R's floor?

(a) P
(b) W
(c) S
(d) T
(e) None of these

Q2. Who among the following person lives on 5th floor?

(a) W
(b) V
(c) S
(d) T
(e) None of these

Q3. How many persons are living between the floors on which V and P lives?

(a) More than three
(b) Two
(c) One
(d) Three
(e) No one

Q4. The number of persons live between R and W is same as the number of persons live between ___ and ____.

(a) S, T
(b) V, U
(c) P, V
(d) Q, R
(e) None of these

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Q5. Which of the following statement is true about W?
(a) W lives immediately below T
(b) W lives on an even numbered floor
(c) Only two persons live between W and R
(d) W lives immediately above P
(e) None is true

Directions (6-8): In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q6. Statements:
Only a few Apple are Orange.
Only a Few Grapes are Papaya.
No Orange is papaya.
Conclusion:
I. Some Apple are not grapes
II. Some grapes are not Orange
(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or II follows
(d) If neither conclusion I nor II follows
(e) If both conclusions I and II follow

Q7. Statements:
Only a few Wrong are True.
All True is False.
Some False are Correct
Conclusion:
I. All Wrong being false is a possibility
II. Some Correct are True
(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or II follows
(d) If neither conclusion I nor II follows
(e) If both conclusions I and II follow

Q8. Statements:
Only Chair is Table.
Some Chair are Office.
All Office is Town

Conclusion:
I. Some Town are Table
II. Some Office are Table
(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or II follows
(d) If neither conclusion I nor II follows
(e) If both conclusions I and II follow

Directions (9-13): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Give answer accordingly.

Q9.
Statements:
$N \geq J = M = O > R < B < S$
Conclusions:
I. $N = M$
II. $N > M$
(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q10.
Statements:
$W \leq Y > Z = X > P > J$
Conclusions:
I. $Y > P$
II. $Z < W$
(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q11.
Statements:
$A < B < C \leq D = E$
Conclusions:
I. $B \leq E$
II. $B < E$
(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q12.
Statements:
$A \geq B \leq C < D > F$
Conclusions:
I. $F > B$
II. $A > D$
(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q13.
Statements:
$P > X > Y = Q \geq Z$
Conclusions:
I. $Z < P$
II. $P > Q$
(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Directions (14-16): Study the following information carefully and answer the questions given below.
There are some persons who all are sitting in a row facing towards the north direction. F sits fifth to the right of K. Only two persons sits between B and K. G sits seventh to the left of B. H sits third to the right of G. A is the immediate neighbour of B. Less than 16 persons sits in the row. D sits fifth to the right of H.

Q14. If 'O' sits third to the right of F, then how many persons sit between K and O in the row?
(a) 10
(b) 12
(c) 7
(d) 8
(e) None of these

Q15. How many persons sit between A and G?
(a) Four
(b) Six
(c) Seven
(d) Eight
(e) Five

Q16. If 'P' sits between K and A then what is the position of 'P' with respect to G?
(a) Fifth to the left
(b) Sixth to the right
(c) Fourth to the right
(d) Fifth to the right
(e) None of these

Directions (17-21): Study the following information carefully and answer the questions given below.
Eight boxes are placed one above the other. There are three boxes placed between D and B. Two boxes are placed between A and H. Box H are kept just below box B. There are two boxes between the box B and E. Two boxes are placed between the box C and G. Box C is placed at the bottom. Box F does not place immediately below the box A.

Q17. How many boxes are placed between box F and G?
(a) One
(b) Two
(c) Three
(d) More than Three
(e) None of these

Q18. Which of the following box is placed immediately above box A?
(a) Box D
(b) Box E
(c) Box G
(d) Box H
(e) None of these

Q19. The number of boxes placed between box D and H is same as the number of boxes placed between box ____ and _____.
(a) A, C
(b) F, E
(c) B, D
(d) C, E
(e) None of these

Q20. Which of the box is placed on the top?
(a) Box F
(b) Box D
(c) Box A
(d) Box G
(e) None of these

Q21. Which of the following statement is true about box G?
(a) Box H is placed immediate below box G
(b) Position of box G is fourth from the top
(c) Two boxes are placed between box G and E
(d) Not more than three boxes placed below box G
(e) None of these

Directions (22-24): Study the following information carefully and answer the questions given below.
Suresh leaves his house and starts walking in the north direction. After 10m he turns left. Then he walks for 5m and turns to his right. He walks for 4m and then takes three consecutive left turns and walked 9m, 14m and 10m respectively. Finally, he stops at point T.

Q22. How far is Suresh from his starting point?
(a) 5m
(b) 9m
(c) 4m
(d) 14m
(e) None of these

Q23. In which direction is point T with respect to the starting point?
(a) West
(b) South-East
(c) South
(d) North-West
(e) None of these

Q24. If Suresh goes 5m south from point T then, what is the direction of Suresh initial position with respect to his current position?
(a) West
(b) South-East
(c) South
(d) North-West
(e) None of these

Directions (25-29): Study the following alphanumeric symbol series carefully and answer the questions given below.

S 3 2 G $ 8 6 4 F 1 @ R Y D 9 & U V # M ∞ H E © B * 7 % W A 5

Q25. How many such alphabets are there which is immediately preceded and followed by a symbol?
(a) Three
(b) Two
(c) One
(d) Four
(e) None

Q26. How many such symbols are there which is preceded by numbers and followed by vowels?
(a) Two
(b) None
(c) One
(d) Four
(e) Three

Q27. How many such numbers are there which is preceded by alphabets and followed by symbols?
(a) One
(b) Two
(c) Three
(d) Four
(e) None

Q28. If all numbers are eliminated from the series then, which of the following element is 14th from right end of the given series?
(a) D
(b) U
(c) &
(d) #
(e) None of these

Q29. Which of the following element is 5th to the right of 17th from the right end of the given series?
(a) M
(b) H
(c) 1
(d) 2
(e) None of these

Q30. If it is possible to make only one meaningful word with the 1st, 2nd, 4th and 8th letters of the word 'RATIONAL' which would be the second letter of the word from the right? If more than one such word can be formed give 'Y' as the answer. If no such word can be formed, give 'Z' as your answer.

(a) Y
(b) R
(c) L
(d) Z
(e) I

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

Eight persons i.e., P, Q, R, S, T, U, V and W are sitting around a square table. Four persons are sitting around the corner of table and are facing towards the centre of the table while four persons are sitting around the middle side of the table and are facing away from the centre of table.

Q sits second to the right of V. One person sits between Q and R. Two persons sit between R and W. P sits to the immediate left of S. One person sits between S and T. T does not sit next to V. U does not face away from the centre of table and do not sits next to P.

Q31. Who among the following person faces W?

(a) T
(b) U
(c) P
(d) Q
(e) None of these

Q32. Who among the following person sits to the immediate right of V?

(a) Q
(b) U
(c) R
(d) W
(e) None of these

Q33. The number of persons sitting between W and T, when counted from the left of T is same as the number of persons sitting between U and ___, when counted from the right of ___.

(a) Q
(b) U
(c) S
(d) P
(e) None of these

Q34. Who among the following person faces away from the centre of the table?

(a) W
(b) U
(c) T
(d) Q
(e)None of these

Q35. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
(a) P
(b) V
(c) Q
(d) R
(e) T

Directions (36-39): Study the following information carefully and answer the questions given below.
AME ORK UNE ONG ILM OMB

Q36. If the given words are arranged in the order as they appear in a dictionary from right to left, which of the following word will be the second to the right of the one which is fifth from the right end?
(a) AME
(b) ORK
(c) UNE
(d) ONG
(e) OMB

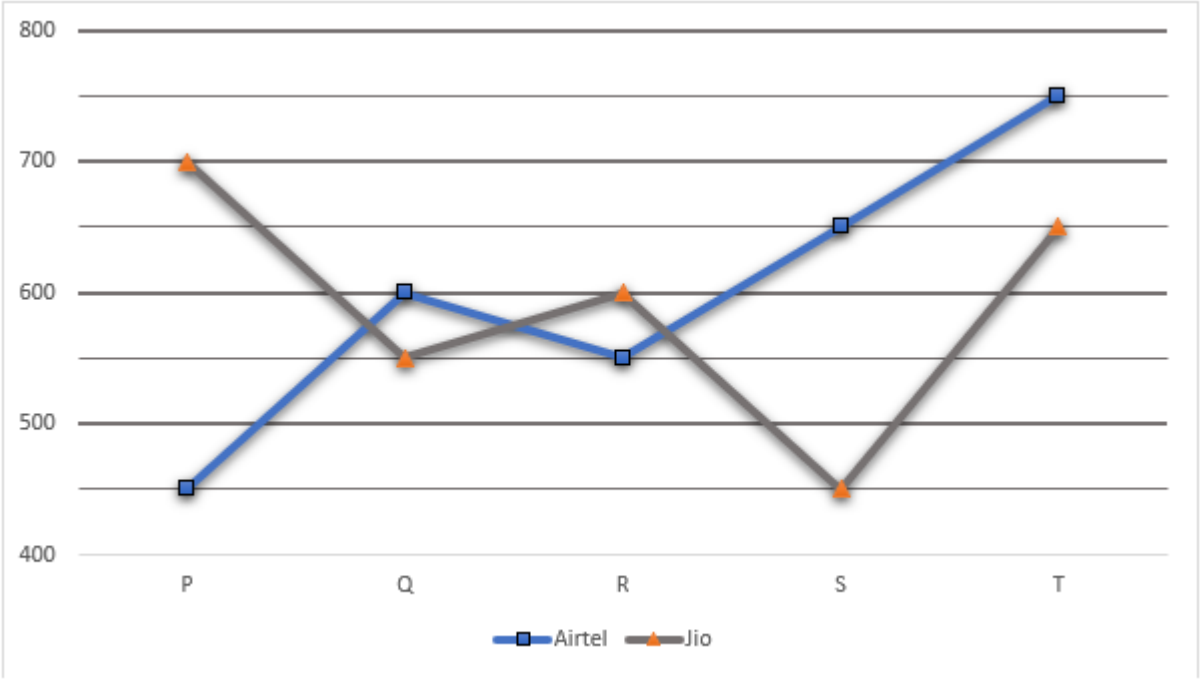
Q37. If the given words are arranged in the order as they appear in a dictionary from left to right, which of the following will be the second to the left of the one which is third from the right end?
(a) AME
(b) ORK
(c) ILM
(d) ONG
(e) OMB

Q38. How many letters are there between the first letter of the fifth word from the left end and the third letter of the second word from the left end, as in the English alphabet?
(a) Two
(b) One
(c) Ten
(d) Three
(e) More than ten

Q39. How many vowels are there in between the first letter of the first word from left end and the first letter of the second word from left end, as in the English alphabet?
(a) Two
(b) One
(c) Three
(d) Five
(e) Four

Q40. How many pairs of letters are there in the word 'INNOVATIVE', each of which have as many letters between them (both forward and backward direction) in the word as they have between them according to English alphabetical order?
(a) Three
(b) Two
(c) One
(d) More than three
(e) None of these

Directions (41-45): **Read the given data carefully and answer the following questions.**
The line graph given below shows the user of Airtel and Jio network in five different villages.
Note: One user only has one connection of network.



Q41. The total number of users of Jio in village S is what percentage of total number of users of Airtel in P and R together.
(a) 60%
(b) 30%
(c) 45%
(d) 33.33%
(e) 50%

Q42. The average number of users of Airtel in Q, S and R is how much more or less than average number of users of Jio in all the five villages.
(a) 10
(b) 0
(c) 5
(d) 15
(e) 20

Q43. Find the ratio of Airtel users in village R and T together to Jio users in village P and S together.
(a) 17: 14
(b) 19: 15
(c) 21: 24
(d) 17: 13
(e) 26: 23

Q44. The number of users of Jio in village Q is what percentage more or less than the number of users of Airtel in same village.
(a) 7.5%
(b) 25%
(c) 12.5%
(d) 8 ⅓%
(e) 5 ⅓%

Q45. In village T, only three types of networks are used i.e., Airtel, Jio and Vodafone. If number of users of Vodafone are 30% of the total users, then find the number of users of Vodafone.
(a) 400
(b) 500
(c) 600
(d) 450
(e) 550

Q46. Shopkeeper allows 25% discount on a table and sell it at Rs. 450. If cost price of table is Rs 320, then find marked price of table is what percent more than its cost price?
(a) 92.5%
(b) None of these
(c) 74.5%
(d) 87.5%
(e) 83.5%

Q47. Sum of two digits of a two-digit number is 11. When digits of the number are reversed then number formed is 45 more than the original number. Find the original number?
(a) 65
(b) 56
(c) 83
(d) None of these
(e) 38

Q48. Pipe A alone fill a tank for 6 hours and then it replaces with pipe B, which alone fill the remaining tank in 12 hours. If ratio of time taken by pipe A alone to B alone to fill the tank completely is 3 : 2, then find time taken by pipe B alone to fill the tank?

(a) 12 hours
(b) 16 hours
(c) 24 hours
(d) 14 hours
(e) 18 hours

Q49. Sum of present age of P and R is 58 years and R is eight years younger than Q. If the ratio of present age of P to that of Q is 6:5, then the age of Q six years hence will be?
(a) 32 years
(b) 34 years
(c) 30 years
(d) 36 years
(e) 28 years

Q50. A boat covers 25% less distance in downstream than upstream and the time taken by boat to cover given distance in downstream and upstream is 2 hours and 4 hours respectively. If speed of boat in still water is 15 Km/hr, then find the speed of stream?
(a) 4 km/hr
(b) 2km/hr
(c) 3km/hr
(d) 5km/hr
(e) 6 km/hr

Q51. In what time will Rs 10500 at rate of 3% per annum on simple interest will produce the same interest as Rs 6000 does in two years at rate of 10% p.a. on compound interest?
(a) 5 years
(b) 6 years
(c) 3 years
(d) 4 years
(e) 7 years

Q52. A and B enter into a business by investing their sum in the ratio of 7 : 9 respectively. After seven months, B leaves the business and after four more months they get a total profit of Rs. 6150. Find the profit share of B (in Rs.)?
(a) 2767.5
(b) 2735.5
(c) 2727.5
(d) 2797.5
(e) None of these

Q53. Two trains A and B cross the same platform in 18 and 24 seconds respectively. The respective length of train A and B is 240 meters and 210 meters and the ratio of their speeds is 3:2. Find the length of platform (in meters)?

(a) 25
(b) 20
(c) 30
(d) 35
(e) 40

Q54. A vessel contains 42 liters pure milk. Seven liters of milk is taken out and replaced with water and again 7 liter of mixture is taken out and replaced with water. Find the quantity of milk in final mixture (in liters)?

(a) $28\frac{1}{6}$
(b) $29\frac{1}{6}$
(c) $23\frac{1}{6}$
(d) $30\frac{1}{6}$
(e) $31\frac{1}{6}$

Q55. The circumference of two circles is 88 m and 132 m respectively. What is difference between the area of larger circle and smaller circle? (in m^2)
(a) 1052
(b) 1128
(c) 1258
(d) 770
(e) 1528

Directions (56-60): Read the given data carefully and answer the following questions.
The data given below shows the no. of watches (Analog and Digital) sold by five shopkeepers.

Shopkeeper	Total watches sold	Ratio of Analog watches to digital watches sold
A	1200	9 : 7
B	1440	5 : 7
C	1650	6 : 5
D	1540	3 : 4
E	1360	7 : 13

Q56. Total digital watches sold by shopkeeper A are what percentage of total analog watches sold by shopkeeper B?
(a) 87.5%
(b) 62.5%
(c) 54%
(d) 82.5%
(e) 75%

Q57. Which shopkeeper sold maximum number of digital watches.
(a) B
(b) E
(c) D
(d) Both B and E
(e) Both D and E

Q58. Total analog watches sold by shopkeeper D are what percentage more or less than total digital watches sold by shopkeeper C.
(a) 15%
(b) 12.5%
(c) 20%
(d) 25%
(e) 12%

Q59. Find the difference between total analog watches and digital watches sold by all given shopkeepers.
(a) 423
(b) 729
(c) 671
(d) 588
(e) 568

Q60. Find the ratio of the average analog watches sold by shopkeeper B and C to total digital watches sold by shopkeeper A.
(a) 7 : 10
(b) 4 : 9
(c) 4 : 7
(d) 10: 7
(e) 7 :9

Directions (61-65): What will come in place of question mark (?) in the following series questions.

Q61. 24 30 23 31 22 ?
(a) 32
(b) 33
(c) 31
(d) 34
(e) 35

Q62. 6, 7, 16, 51, 208, ?
(a) 970
(b) 845
(c) 1085
(d) 985
(e) 1045

Q63. 39600 , 6600 , ?, 330, 110, 55
(a) 1320
(b) 1650
(c) 1100
(d) 1160
(e) 1280

Q64. 9, 10, 18, 27, 91, ?
(a) 100
(b) 144
(c) 125
(d) 162
(e) 116

Q65. 999, ?, 778, 669, 561, 454
(a) 888
(b) 887
(c) 877
(d) 878
(e) 886

Q66. Monthly income of Ankush is $77\frac{7}{9}\%$ of monthly income of Aman. If Ankush's total monthly expenditure is Rs 28000 and he saves 40% of his salary. Find monthly income of Aman.
(a) Rs 56000
(b) Rs 60000
(c) Rs 45000
(d) Rs 48000
(e) Rs 40000

Q67. The ratio of present age of A and B is 3 : 2 and the ratio of A's age five years ago to B's age ten years hence is 1 : 2. Find sum of their present age?
(a) 30 years
(b) 25 years
(c) 45 years
(d) 35 years
(e) 20 years

Directions (68-80): What will come in the place of question (?) mark in following questions.

Q68. $\frac{27}{40} \div \frac{1}{5} \times \frac{8}{9} \div \frac{3}{100} = ?$

(a) 120
(b) 90
(c) 100
(d) 75
(e) 60

Q69. $51\% of \frac{1200}{17} + 18^2 = ? \times 24$

(a) 15
(b) 10
(c) 12
(d) 18
(e) 16

Q70. $102^2 \div 17 \ of \ 25\% \ of \ 4 \div 36 = ?$

(a) 32
(b) 16
(c) 34
(d) 21
(e) 17

Q71. 35 % of 30 % of 50 % of 6000 = ?

(a) 305
(b) 315
(c) 335
(d) 295
(e) 325

Q72. $5 \times 12 \div 8 \times 4 = ?$

(a) 25
(b) 28
(c) 30
(d) 35
(e) 40

Q73. $\sqrt{144} + \sqrt[4]{256} + ? = \sqrt{324}$
(a) 2
(b) 12
(c) 8
(d) 26
(e) 6

Q74. $17 + 24 \div 6 = ? + \sqrt{169}$
(a) 5
(b) 10
(c) 12
(d) 8
(e) 15

Q75. $((16)^2 + (10)^2) \div \frac{2}{3} = ? \times 6$
(a) 89
(b) 93
(c) 86
(d) 96
(e) 83

Q76. $119 + 41 + \sqrt{81} = ?^2$
(a) 10
(b) 13
(c) 17
(d) 8
(e) 16

Q77. $1391 \div 26 \times 2 = ? - 16^2$
(a) 324
(b) 413
(c) 400
(d) 343
(e) 363

Q78. $111 + 41 + (5)^2 + (2)^2 = ?$
(a) 195
(b) 162
(c) 181
(d) 170
(e) 189

Q79. $109\sqrt{?}-\frac{61}{21}\times?=48\sqrt{?}$

(a) 441
(b) 169
(c) 250
(d) 121
(e) 324

Q80. $150\ \%\ \text{of}\ 20+\frac{323}{17}+\sqrt{?}=(9)^2$

(a) 984
(b) 1024
(c) 1360
(d) 1225
(e) 674

Solutions

S1. Ans.(c)

Sol. V lives on an even numbered floor above 4th floor. Three persons live between V and U. Two persons live between R and Q who lives below the R's floor. Q does not live on ground floor. There are four possibilities-

Floors	Case-1	Case-2	Case-3	Case-4
	Persons	Persons	Persons	Persons
8	V	R	V	
7				R
6	R	V		V
5		Q	R	
4	U		U	Q
3	Q			
2		U	Q	U
1				

Three persons live between P and T who lives above U's floor. The number of persons live below P is same as the number of persons live above S. From these conditions case-1 and 2 will be eliminated. W does not live below P's floor. From this condition case-3 also eliminated. The final arrangement is-

Floor	Persons
8	S
7	R
6	V
5	T
4	Q
3	W
2	U
1	P

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S2. Ans.(d)

Sol. V lives on an even numbered floor above 4th floor. Three persons live between V and U. Two persons live between R and Q who lives below the R's floor. Q does not live on ground floor. There are four possibilities-

Floors	Case-1	Case-2	Case-3	Case-4
	Persons	Persons	Persons	Persons
8	V	R	V	
7				R
6	R	V		V
5		Q	R	
4	U		U	Q
3	Q			
2		U	Q	U
1				

Three persons live between P and T who lives above U's floor. The number of persons live below P is same as the number of persons live above S. From these conditions case-1 and 2 will be eliminated. W does not live below P's floor. From this condition case-3 also eliminated. The final arrangement is-

Floor	Persons
8	S
7	R
6	V
5	T
4	Q
3	W
2	U
1	P

S3. Ans.(a)

Sol. V lives on an even numbered floor above 4th floor. Three persons live between V and U. Two persons live between R and Q who lives below the R's floor. Q does not live on ground floor. There are four possibilities-

Floors	Case-1	Case-2	Case-3	Case-4
	Persons	Persons	Persons	Persons
8	V	R	V	
7				R
6	R	V		V
5		Q	R	
4	U		U	Q
3	Q			
2		U	Q	U
1				

Three persons live between P and T who lives above U's floor. The number of persons live below P is same as the number of persons live above S. From these conditions case-1 and 2 will be eliminated. W does not live below P's floor. From this condition case-3 also eliminated. The final arrangement is-

Floor	Persons
8	S
7	R
6	V
5	T
4	Q
3	W
2	U
1	P

S4. Ans.(b)

Sol. V lives on an even numbered floor above 4th floor. Three persons live between V and U. Two persons live between R and Q who lives below the R's floor. Q does not live on ground floor. There are four possibilities-

Floors	Case-1	Case-2	Case-3	Case-4
	Persons	Persons	Persons	Persons
8	V	R	V	
7				R
6	R	V		V
5		Q	R	
4	U		U	Q
3	Q			
2		U	Q	U
1				

Three persons live between P and T who lives above U's floor. The number of persons live below P is same as the number of persons live above S. From these conditions case-1 and 2 will be eliminated. W does not live below P's floor. From this condition case-3 also eliminated. The final arrangement is-

Floor	Persons
8	S
7	R
6	V
5	T
4	Q
3	W
2	U
1	P

S5. Ans.(e)

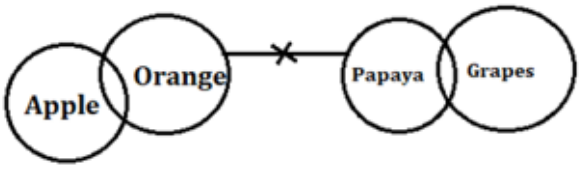
Sol. V lives on an even numbered floor above 4th floor. Three persons live between V and U. Two persons live between R and Q who lives below the R's floor. Q does not live on ground floor. There are four possibilities-

Floors	Case-1	Case-2	Case-3	Case-4
	Persons	Persons	Persons	Persons
8	V	R	V	
7				R
6	R	V		V
5		Q	R	
4	U		U	Q
3	Q			
2		U	Q	U
1				

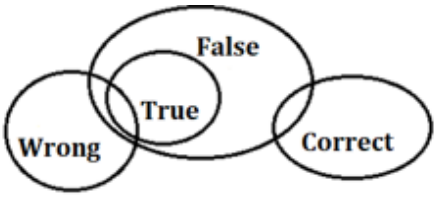
Three persons live between P and T who lives above U's floor. The number of persons live below P is same as the number of persons live above S. From these conditions case-1 and 2 will be eliminated. W does not live below P's floor. From this condition case-3 also eliminated. The final arrangement is-

Floor	Persons
8	S
7	R
6	V
5	T
4	Q
3	W
2	U
1	P

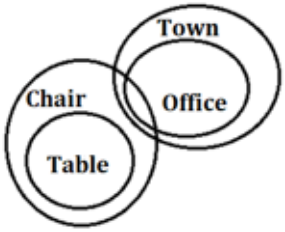
S6. Ans.(b)
Sol.



S7. Ans.(a)
Sol.



S8. Ans.(d)
Sol.



S9. Ans.(c)
Sol. I. N = M (False) II. N > M (False)

S10. Ans.(a)
Sol. I. Y > P (True) II. Z < W (False)

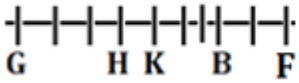
S11. Ans.(b)
Sol. I. B ≤ E (False) II. B < E (True)

S12. Ans.(d)
Sol. I. F > B (False) II. A > D (False)

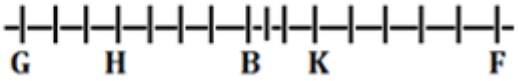
S13. Ans.(e)
Sol. I. Z < P (True) II. P > Q (True)

S14. Ans.(c)
Sol. From the given condition, F sits fifth to the right of K. Only two persons sits between B and K. There are two possibilities. G sits seventh to the left of B. H sits third to the right of G.

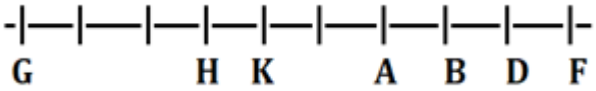
Case-1



Case-2

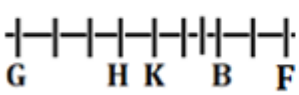


Less than 16 persons sits in the row. From this condition case-2 will be eliminated. A is the immediate neighbour of B. D sits fifth to the right of H. The final arrangement is-

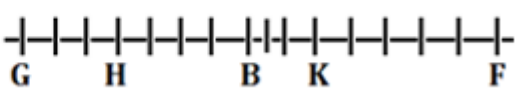


S15. Ans.(e)
Sol. From the given condition, F sits fifth to the right of K. Only two persons sits between B and K. There are two possibilities. G sits seventh to the left of B. H sits third to the right of G.

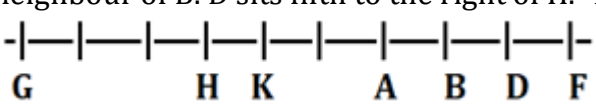
Case-1



Case-2

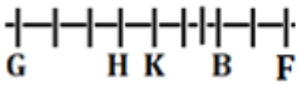


Less than 16 persons sits in the row. From this condition case-2 will be eliminated. A is the immediate neighbour of B. D sits fifth to the right of H. The final arrangement is-

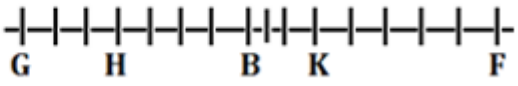


S16. Ans.(d)
Sol. From the given condition, F sits fifth to the right of K. Only two persons sits between B and K. There are two possibilities. G sits seventh to the left of B. H sits third to the right of G.

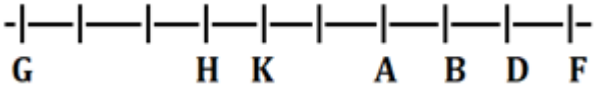
Case-1



Case-2



Less than 16 persons sits in the row. From this condition case-2 will be eliminated. A is the immediate neighbour of B. D sits fifth to the right of H. The final arrangement is-



S17. Ans.(c)

Sol. From the given conditions, two boxes are placed between A and H. Box H kept just below box B. There are three boxes placed between D and B. There are two possibilities-

Case-1	Case-2
Boxes	**Boxes**
A	D
B	A
H	
	B
	H
D	

There are two boxes between the box B and E. Two boxes are placed between the box C and box G. Box C placed at the bottom. Box F does not place immediately below the box A. case-1 will be ruled out. The final arrangement is-

Boxes
F
D
E
A
G
B
H
C

S18. Ans.(b)

Sol. From the given conditions, two boxes are placed between A and H. Box H kept just below box B. There are three boxes placed between D and B. There are two possibilities-

Case-1	Case-2
Boxes	**Boxes**
A	D
B	A
H	
	B
	H
D	

There are two boxes between the box B and E. Two boxes are placed between the box C and box G. Box C placed at the bottom. Box F does not place immediately below the box A. case-1 will be ruled out. The final arrangement is-

Boxes
F
D
E
A
G
B
H
C

S19. Ans.(d)

Sol. From the given conditions, two boxes are placed between A and H. Box H kept just below box B. There are three boxes placed between D and B. There are two possibilities-

Case-1	Case-2
Boxes	**Boxes**
A	D
B	A
H	
	B
	H
D	

There are two boxes between the box B and E. Two boxes are placed between the box C and box G. Box C placed at the bottom. Box F does not place immediately below the box A. case-1 will be ruled out. The final arrangement is-

Boxes
F
D
E
A
G
B
H
C

S20. Ans.(a)

Sol. From the given conditions, two boxes are placed between A and H. Box H kept just below box B. There are three boxes placed between D and B. There are two possibilities-

Case-1	Case-2
Boxes	**Boxes**
A	D
B	A
H	
	B
	H
D	

There are two boxes between the box B and E. Two boxes are placed between the box C and box G. Box C placed at the bottom. Box F does not place immediately below the box A. case-1 will be ruled out. The final arrangement is-

Boxes
F
D
E
A
G
B
H
C

S21. Ans.(d)

Sol. From the given conditions, two boxes are placed between A and H. Box H kept just below box B. There are three boxes placed between D and B. There are two possibilities-

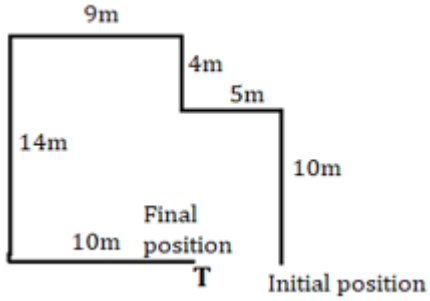
Case-1	Case-2
Boxes	**Boxes**
A	D
B	A
H	
	B
	H
D	

There are two boxes between the box B and E. Two boxes are placed between the box C and box G. Box C placed at the bottom. Box F does not place immediately below the box A. case-1 will be ruled out. The final arrangement is-

Boxes
F
D
E
A
G
B
H
C

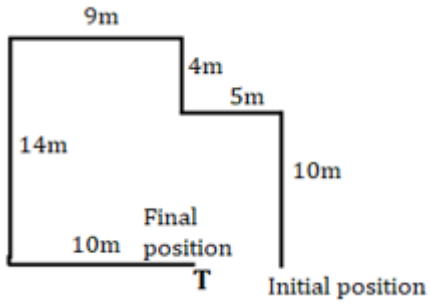
S22. Ans.(c)

Sol.



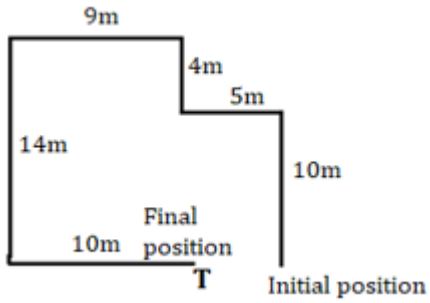
((9+5) – 10) = 4m

S23. Ans.(a)
Sol.



The direction of point T is west with respect to the starting point.

S24. Ans.(e)
Sol.



If Suresh goes 5m south from point T then the direction of Suresh initial position is north-east with respect to his current position.

S25. Ans.(b)
Sol. # M ∞, © B *

S26. Ans.(c)
Sol. 9 & U

S27. Ans.(b)
Sol. F 1 @, D 9 &

S28. Ans.(c)
Sol. New series is-
S G $ F @ R Y D **&** U V # M ∞ H E © B * % W A

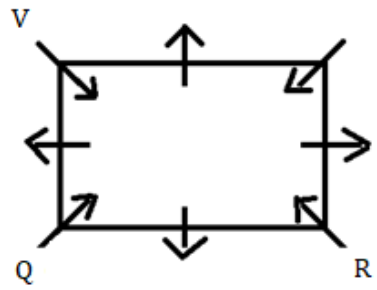
S29. Ans.(a)
Sol. 5th to the right of 17th from the right end i.e. 12th from the right end = M

S30. Ans.(a)

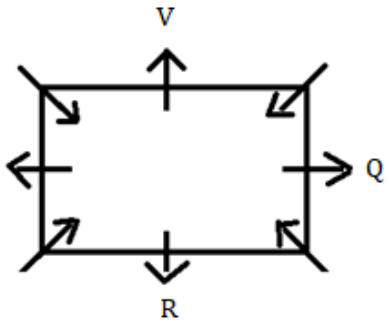
S31. Ans.(a)

Sol. From the given conditions, Q sits second to the right of V. One person sits between Q and R. here there are two cases possible i.e., case1 and case2.

Case 1

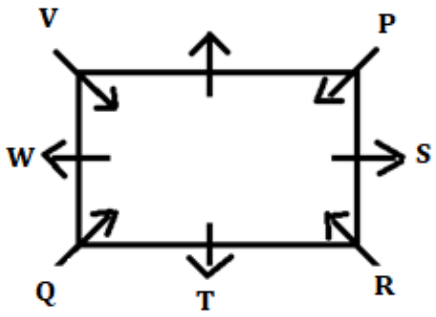


Case 2

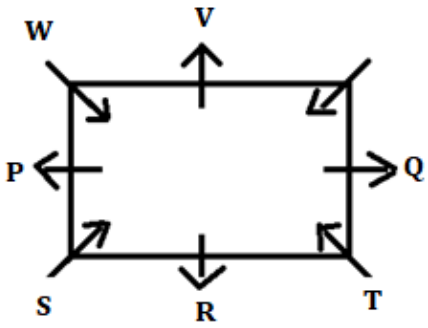


Two persons sit between R and W. P sits to the immediate left of S. One person sits between S and T. T does not sit next to V. here there are two more cases possible i.e., case1a and case 2a.

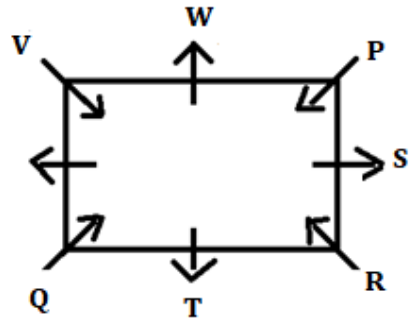
Case 1



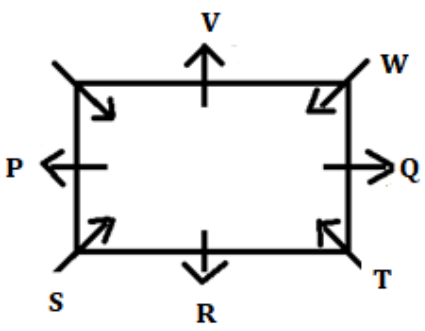
Case 2



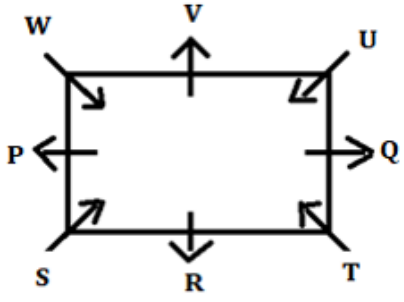
Case 1a



Case 2a



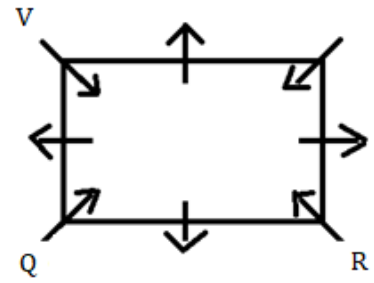
U does not face away from the centre of table and do not sits next to P. here case 1, Case 1a and case 2a gets eliminated. So, the final solution is-



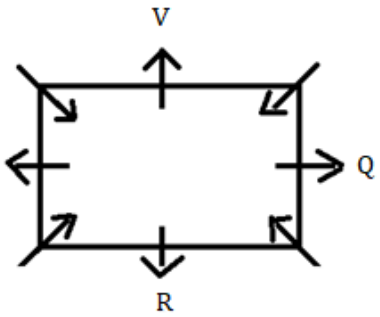
S32. Ans.(b)

Sol. From the given conditions, Q sits second to the right of V. One person sits between Q and R. here there are two cases possible i.e., case1 and case2.

Case 1

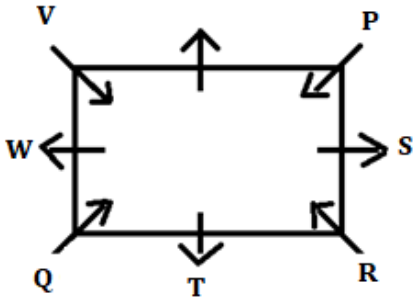


Case 2

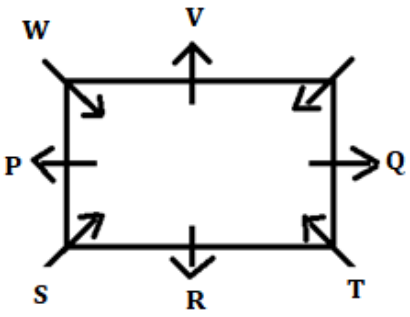


Two persons sit between R and W. P sits to the immediate left of S. One person sits between S and T. T does not sit next to V. here there are two more cases possible i.e., case1a and case 2a.

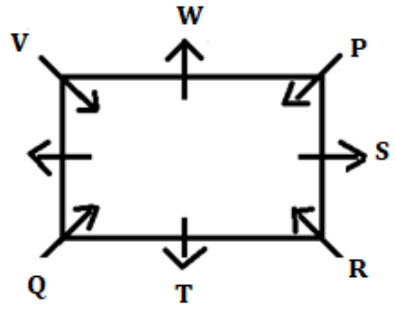
Case 1



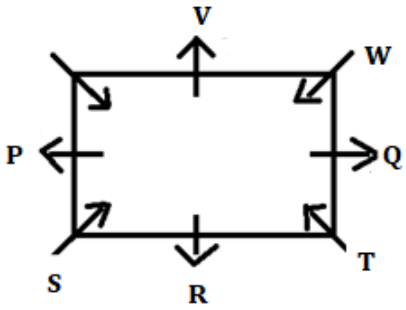
Case 2



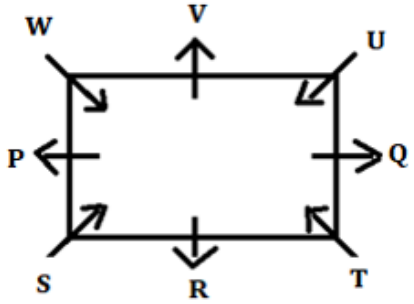
Case 1a



Case 2a



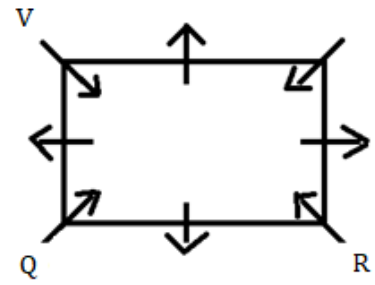
U does not face away from the centre of table and do not sits next to P. here case 1, Case 1a and case 2a gets eliminated. So, the final solution is-



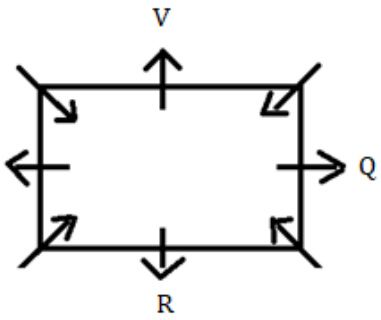
S33. Ans.(c)

Sol. From the given conditions, Q sits second to the right of V. One person sits between Q and R. here there are two cases possible i.e., case1 and case2.

Case 1

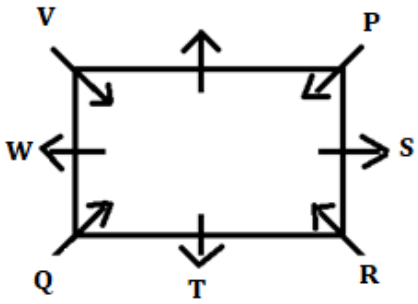


Case 2

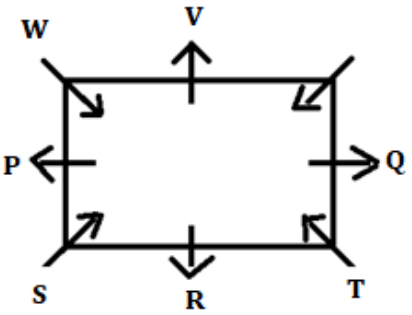


Two persons sit between R and W. P sits to the immediate left of S. One person sits between S and T. T does not sit next to V. here there are two more cases possible i.e., case1a and case 2a.

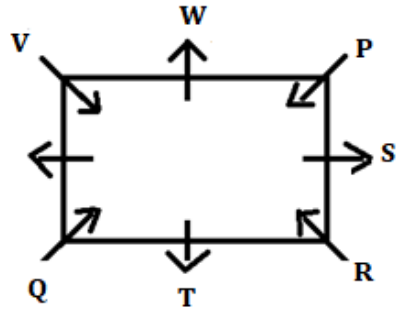
Case 1



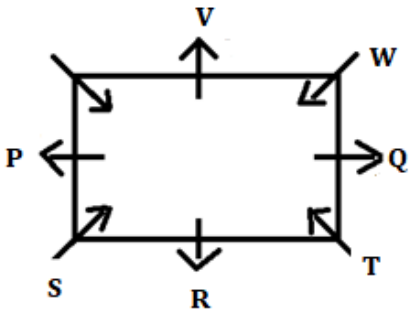
Case 2



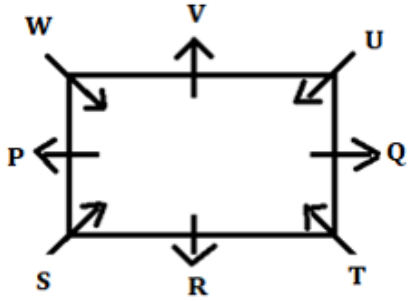
Case 1a



Case 2a



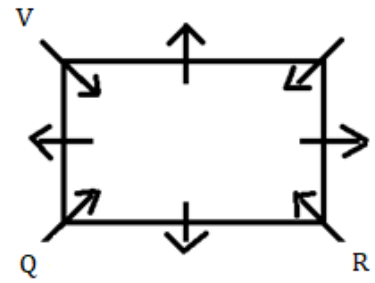
U does not face away from the centre of table and do not sits next to P. here case 1, Case 1a and case 2a gets eliminated. So, the final solution is-



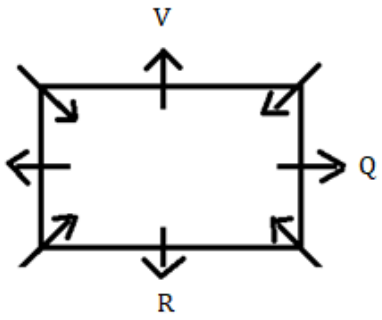
S34. Ans.(d)

Sol. From the given conditions, Q sits second to the right of V. One person sits between Q and R. here there are two cases possible i.e., case1 and case2.

Case 1

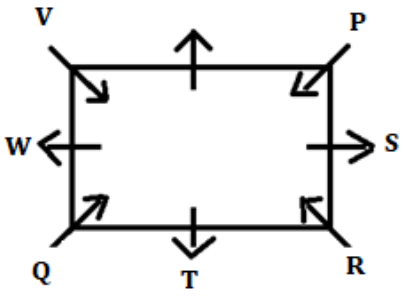


Case 2

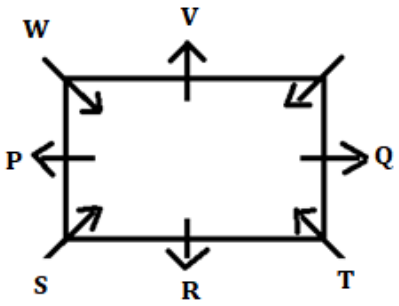


Two persons sit between R and W. P sits to the immediate left of S. One person sits between S and T. T does not sit next to V. here there are two more cases possible i.e., case1a and case 2a.

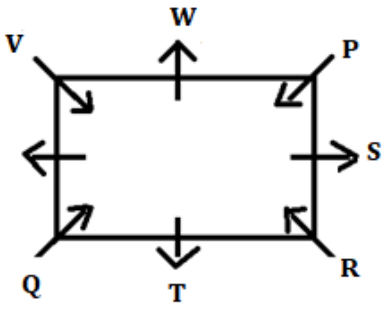
Case 1



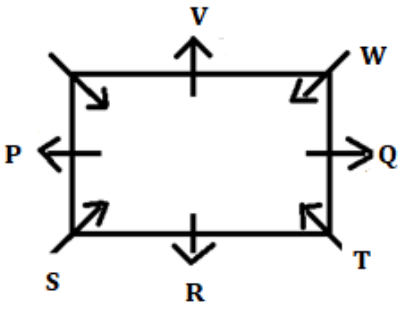
Case 2



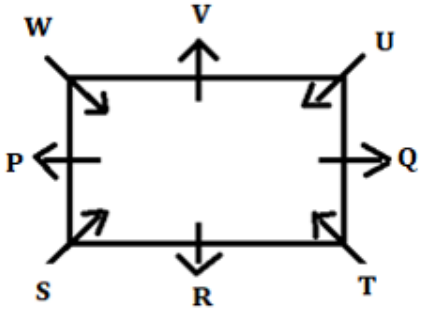
Case 1a



Case 2a

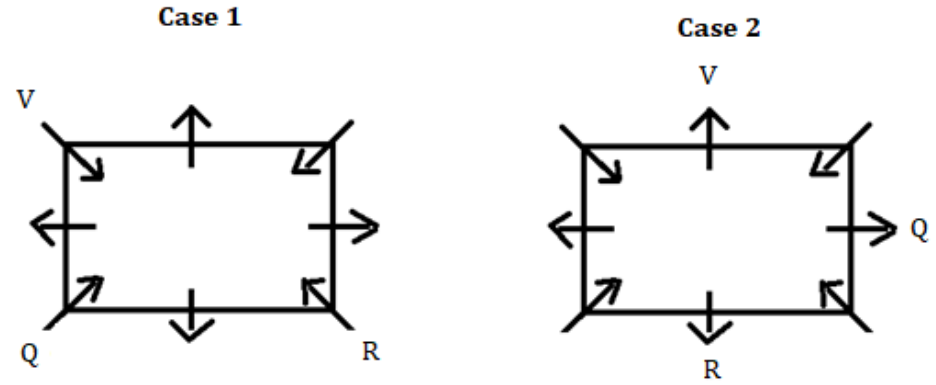


U does not face away from the centre of table and do not sits next to P. here case 1, Case 1a and case 2a gets eliminated. So, the final solution is-

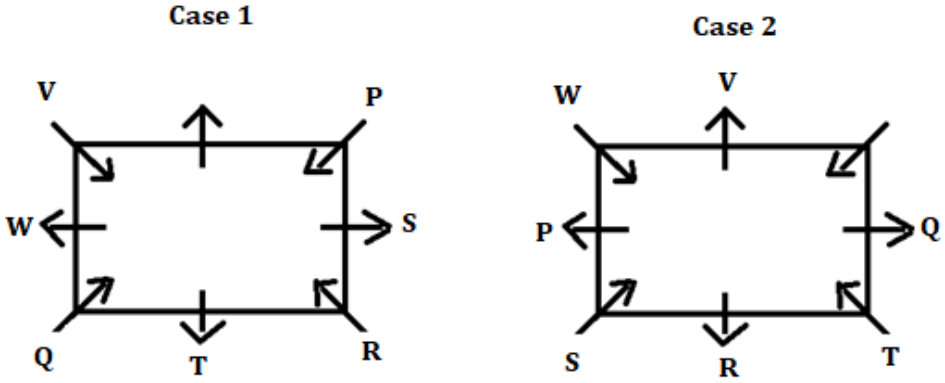


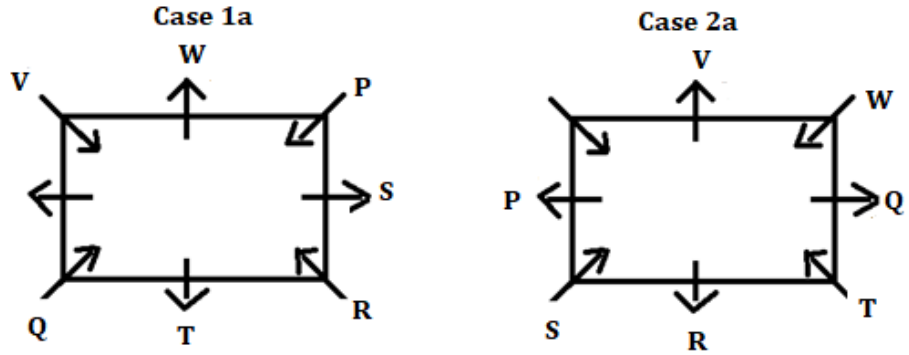
S35. Ans.(e)

Sol. From the given conditions, Q sits second to the right of V. One person sits between Q and R. here there are two cases possible i.e., case1 and case2.

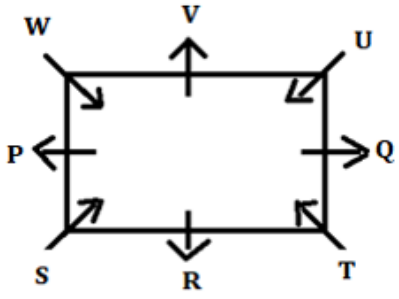


Two persons sit between R and W. P sits to the immediate left of S. One person sits between S and T. T does not sit next to V. here there are two more cases possible i.e., case1a and case 2a.





U does not face away from the centre of table and do not sits next to P. here case 1, Case 1a and case 2a gets eliminated. So, the final solution is-



S36. Ans.(e)
Sol. After Rearrangement: UNE ORK ONG **OMB** ILM AME

S37. Ans.(c)
Sol. After Rearrangement: AME **ILM** OMB ONG ORK UNE

S38. Ans.(b)
Sol. between K and I only one letter is there i.e., J.

S39. Ans.(a)
Sol. Only E and I.

S40. Ans.(d)
Sol.

S41. Ans.(c)
Sol.

$$\text{Required percentage} = \frac{450}{450+550} \times 100 = 45\%$$

S42. Ans.(a)
Sol.

$$\text{Average number of Airtel users in Q, S and R} = \frac{600+650+550}{3} = 600$$

$$\text{Average number of Jio users in all 5 villages} = \frac{700+550+600+450+650}{5} = 590$$

$$\text{So, required difference} = 600 - 590 = 10$$

S43. Ans.(e)
Sol.

$$\text{Required average} = \frac{550+750}{700+450} = \frac{1300}{1150} = 26:23$$

S44. Ans.(d)
Sol.

$$\text{Required percentage} = \frac{600-550}{600} \times 100 = 8\frac{1}{3}\%$$

S45. Ans.(c)

Sol.

Total users of Airtel and Jio in village T = 750 + 650 = 1400

So, required number of Vodafone users = $\frac{1400}{70} \times 30 = 600$

S46. Ans.(d)

Sol.

Marked price of table = $\frac{450}{75} \times 100 = 600$ Rs.

Required percentage = $\frac{600-320}{320} \times 100 = 87.5\%$

S47. Ans.(e)

Sol.

Let the number be 10x+y

ATQ,

10y + x – 10x-y = 45

y – x = 5 .....(i)

x + y = 11 .....(ii)

solving (i) and (ii) , we get

x= 3 and y = 8

Therefore number = 38

S48. Ans.(b)

Sol.

Let pipe A alone and pipe B alone fill the tank completely in 3x and 2x respectively

ATQ,

$\frac{6}{3x} + \frac{12}{2x} = 1$

x = 8

therefore, pipe B alone to fill the tank = 2 × 8 =16 hours

S49. Ans.(d)

Sol.

Given, total age of P and R = 58 years

Let present age of P and Q be 6x and 5x years respectively

Therefore, present age of R = 5x-8

ATQ,

5x-8 + 6x = 58

x= 6

the age of Q six years hence will be = 5 × 6 + 6 = 36 years

S50. Ans.(c)

Sol.

Let distance covered by boat in upstream = 4d

So, distance covered by boat in downstream = $4d \times \frac{75}{100} = 3d$

And speed of stream be y km/hr

ATQ,

$\frac{3d}{15+y} = 2$

3d – 2y = 30 .....(i)

$\frac{4d}{15-y} = 4$

4d + 4y = 60 .....(ii)

Solving (i) and (ii), we get

d = 12, y = 3

Speed of stream = 3 km/hr

S51. Ans.(d)

Sol.

Let time = t years

According to the question,

$$\frac{10500 \times 3 \times t}{100} = 6000 \times \left[\left(1 + \frac{10}{100}\right)^2\right] - 6000$$

$$\frac{10500 \times 3 \times t}{100} = 7260 - 6000$$

$$\frac{10500 \times 3 \times t}{100} = 1260$$

315t = 1260

t = 4 years

Hence required time = 4 years

S52. Ans.(a)

Sol.

Let investment of A and B be 7x and 9x respectively

(A's profit) : (B's profit) = 7x × 11 : 9x × 7

= 11 : 9

$\therefore$ B's profit *share* $= \frac{9}{20} \times 6150$ = Rs. 2767.5

S53. Ans.(c)

Sol.

Let length of platform = x meters

$$\therefore \frac{\frac{x+240}{18}}{\frac{x+210}{24}} = \frac{3}{2}$$

$\Rightarrow \frac{x+240}{x+210} \times \frac{4}{3} = \frac{3}{2}$

$\Rightarrow 9x + 210 \times 9 = 8x + 240 \times 8$

$\Rightarrow x = 1920 - 1890 = 30$ meters

S54. Ans.(b)

Sol.

After replacing 7 liters of milk with water the ratio of milk to water in mixture become = (42 – 7) : 7 = 5:1

Quantity of milk left in final mixture = $35 - 7 \times \frac{5}{6} = 29\frac{1}{6}$ *liters*

S55. Ans.(d)

Sol.

Let radius of smaller & larger circles be r_1 & r_2 respectively.

$2\pi r_1 = 88$

$r_1 = 14$ m

Similarly, $2\pi r_2 = 132$

$r_2 = 21$ m.

∴ Required difference

$= \pi(r_2^2 - r_1^2)$

$= \frac{22}{7} \times 245$

$= 770\ m^2$

S56. Ans.(a)

Sol.

From the table data

Shopkeeper	Total sold watches	Sold no. of Analog watches	Sold no. of Digital watches
A	1200	675	525
B	1440	600	840
C	1650	900	750
D	1540	660	880
E	1360	476	884
Total	7190	3311	3879

Required percentage $= \frac{525}{600} \times 100 = 87.5\%$

S57. Ans.(b)

Sol.

From the table data

Shopkeeper	Total sold watches	Sold no. of Analog watches	Sold no. of Digital watches
A	1200	675	525
B	1440	600	840
C	1650	900	750
D	1540	660	880
E	1360	476	884
Total	7190	3311	3879

From table, the maximum number of digital watches are sold by shopkeeper E. i.e. 884

S58. Ans.(e)

Sol.

From the table data

Shopkeeper	Total sold watches	Sold no. of Analog watches	Sold no. of Digital watches
A	1200	675	525
B	1440	600	840
C	1650	900	750
D	1540	660	880
E	1360	476	884
Total	7190	3311	3879

Required percentage $= \frac{750-660}{750} \times 100 = 12\%$

S59. Ans.(e)

Sol.

From the table data

Shopkeeper	Total sold watches	Sold no. of Analog watches	Sold no. of Digital watches
A	1200	675	525
B	1440	600	840
C	1650	900	750
D	1540	660	880
E	1360	476	884
Total	7190	3311	3879

Required difference $= 3879 - 3311 = 568$

S60. Ans.(d)

Sol.

From the table data

Shopkeeper	Total sold watches	Sold no. of Analog watches	Sold no. of Digital watches
A	1200	675	525
B	1440	600	840
C	1650	900	750
D	1540	660	880
E	1360	476	884
Total	7190	3311	3879

Average analog watches sold by shopkeeper B and C $= \frac{600+900}{2} = 750$

So, required ratio $= \frac{750}{525} = \frac{10}{7}$

S61. Ans.(a)

Sol.

Pattern of series -

24 + 6 = 30

30 – 7 = 23

23 + 8 = 31

31 – 9 = 22

∴ 22 + 10 = 32

S62. Ans.(e)

Sol.

Pattern of series -

$6\times 1 + 1 = 7$

$7\times 2 + 2 = 16$

$16\times 3 + 3 = 51$

$51\times 4 + 4 = 208$

$208\times 5 + 5 = 1045$

S63. Ans.(a)

Sol.

Pattern of series -

39600 ÷ 6 = 6600

6600 ÷ 5 = 1320

1320 ÷ 4 = 330

330 ÷ 3 = 110

110 ÷ 2 = 55

S64. Ans.(e)

Sol.

Pattern of series -

$9 + 1^2 = 10$

$10 + 2^3 = 18$

$18 + 3^2 = 27$

$27 + 4^3 = 91$

$91 + 5^2 = 116$

S65. Ans.(a)

Sol.

Pattern of series -

$999 - 111 = 888$

$888 - 110 = 778$

$778 - 109 = 669$

$669 - 108 = 561$

$561 - 107 = 454$

S66. Ans.(b)

Sol.

Monthly income of Aman $= 28000 \times \frac{100}{100-40} \times \frac{900}{700} = Rs\ 60000$

S67. Ans.(b)

Sol.

Let present age of A and B is '3x' and '2x' years.

ATQ,

$$\frac{3x-5}{2x+10} = \frac{1}{2}$$

$6x - 10 = 2x + 10$

$4x = 20$

$x = 5$

Required age = 3x + 2x

= 5x

= 25 years

S68. Ans.(c)

Sol.

$\frac{27}{40} \times 5 \times \frac{8}{9} \times \frac{100}{3} = ?$

$? = 100$

S69. Ans.(a)

Sol.

$\frac{51}{100} \times \frac{1200}{17} + 324 = ? \times 24$

$36 + 324 = ? \times 24$

$? = \frac{360}{24}$

$? = 15$

S70. Ans.(e)

Sol.

$10404 \div (17 \times \frac{25}{100} \times 4) \times \frac{1}{36} = ?$

$10404 \times \frac{1}{17} \times \frac{1}{36} = ?$

$? = 17$

S71. Ans.(b)

Sol.

$? = \frac{35}{100} \times \frac{30}{100} \times \frac{50}{100} \times 6000$

$? = 315$

S72. Ans.(c)

Sol.

$? = 5 \times \frac{12}{8} \times 4$

$? = 30$

S73. Ans.(a)

Sol.

$? = 18 - 12 - 4$

$? = 2$

S74. Ans.(d)

Sol.

$? = 17 + \frac{24}{6} - 13$

$? = 8$

S75. Ans.(a)

Sol.

$? = (256 + 100) \times \frac{3}{2} \times \frac{1}{6}$

$? = 89$

S76. Ans.(b)

Sol.

$119 + 41 + 9 = ?^2$

$? = 13$

S77. Ans.(e)

Sol.

$\frac{1391}{26} \times 2 + 256 = ?$

$? = 363$

S78. Ans.(c)

Sol.

$111 + 41 + 5^2 + 2^2 = ?$

$? = 152 + 25 + 4$

$? = 181$

S79. Ans.(a)

Sol.

$109\sqrt{?} - 48\sqrt{?} = \frac{61}{21} \times ?$

$61\sqrt{?} = \frac{61}{21} \times ?$

$? = 441$

S80. Ans.(b)

Sol.

$30 + 19 + \sqrt{?} = 81$

$? = 1024$

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