

RRB Clerk Pre 2022 (13th August) Shift-Wise Previous Year Papers Mock 05

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

M 4 E T % J 9 O B @ U 8 © N # W F 1 V 7 * 2 A H 3 Y 5 \$ 6 K

Q1. Which of the following is the ninth to the right of the seventeenth from the right end of the above arrangement?

- (a) A
- (b) %
- (c) O
- (d) Y
- (e) None of these

Q2. What should come in the place of question mark based on the logic followed in the above arrangement?

4 T % 9 B @

- (a) 2 H 3
- (b) 2 H Y
- (c) * A H
- (d) * A 3
- (e) None of these

Q3. Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

- (a) J O T
- (b) 3 5 A
- (c) \$ K Y
- (d) A 3 *
- (e) 8 © @

Q4. How many such vowels are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a consonant?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) Four

(a) None
(b) One
(c) Two
(d) Three
(e) More than three

Eight persons are seated around a circular table. The following information is given:
 1. P is the manager, Head of Marketing, P is a woman and Buyer and is the senior-most design officer.
 2. W is not Customer Service Officer. There is a gap between P and U.
 3. R is just senior to S. There are two persons between S and V.
 4. There are two persons between S and U. Neither V nor Q is a Designer.
 5. There are two persons between Q and W.

(a) T
(b) R
(c) V
(d) P
(e) None of

I. R is the set of most persons

III. U is just

(b) Only III

(d) Only II

(e) Both II and III

(a) V- Head of Design
(b) P- Graphic designer
(c) W- Commination officer
(d) W- Customer service manager
(e) S- Buyer assistant

Q9. How many persons are junior to Q?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

Q10. Who among the following is just junior to Graphic designer?

- (a) Q
- (b) U
- (c) R
- (d) V
- (e) W

Directions
below:

Eight persons are sitting around a circular table and the following conditions are given:
1. A and D are opposite to each other.
2. B sits third to the right of A.
3. C sits second to the right of B.
4. E sits between C and D.
5. F sits between A and B.
6. G sits between E and D.
7. H sits between F and G.
8. I sits between H and A.
9. J sits between I and B.
10. K sits between J and C.
11. L sits between K and D.
12. M sits between L and E.
13. N sits between M and F.
14. O sits between N and G.
15. P sits between O and H.
16. Q sits between P and I.
17. R sits between Q and J.
18. S sits between R and K.
19. T sits between S and L.
20. U sits between T and M.
21. V sits between U and N.
22. W sits between V and O.
23. X sits between W and P.
24. Y sits between X and Q.
25. Z sits between Y and R.
26. AA sits between Z and S.
27. AB sits between AA and T.
28. AC sits between AB and U.
29. AD sits between AC and V.
30. AE sits between AD and W.
31. AF sits between AE and X.
32. AG sits between AF and Y.
33. AH sits between AG and Z.
34. AI sits between AH and AA.
35. AJ sits between AI and AB.
36. AK sits between AJ and AC.
37. AL sits between AK and AD.
38. AM sits between AL and AE.
39. AN sits between AM and AF.
40. AO sits between AN and AG.
41. AP sits between AO and AH.
42. AQ sits between AP and AI.
43. AR sits between AQ and AJ.
44. AS sits between AR and AK.
45. AT sits between AS and AL.
46. AU sits between AT and AM.
47. AV sits between AU and AN.
48. AW sits between AV and AO.
49. AX sits between AW and AP.
50. AY sits between AX and AQ.
51. AZ sits between AY and AR.
52. BAA sits between AZ and AS.
53. BAB sits between BAA and AT.
54. BBA sits between BAB and AU.
55. BBB sits between BBA and AV.
56. BCB sits between BBB and AW.
57. BDB sits between BCB and AX.
58. BEB sits between BDB and AY.
59. BEB sits between BDB and AY.
60. BEB sits between BDB and AY.
61. BEB sits between BDB and AY.
62. BEB sits between BDB and AY.
63. BEB sits between BDB and AY.
64. BEB sits between BDB and AY.
65. BEB sits between BDB and AY.
66. BEB sits between BDB and AY.
67. BEB sits between BDB and AY.
68. BEB sits between BDB and AY.
69. BEB sits between BDB and AY.
70. BEB sits between BDB and AY.
71. BEB sits between BDB and AY.
72. BEB sits between BDB and AY.
73. BEB sits between BDB and AY.
74. BEB sits between BDB and AY.
75. BEB sits between BDB and AY.
76. BEB sits between BDB and AY.
77. BEB sits between BDB and AY.
78. BEB sits between BDB and AY.
79. BEB sits between BDB and AY.
80. BEB sits between BDB and AY.
81. BEB sits between BDB and AY.
82. BEB sits between BDB and AY.
83. BEB sits between BDB and AY.
84. BEB sits between BDB and AY.
85. BEB sits between BDB and AY.
86. BEB sits between BDB and AY.
87. BEB sits between BDB and AY.
88. BEB sits between BDB and AY.
89. BEB sits between BDB and AY.
90. BEB sits between BDB and AY.
91. BEB sits between BDB and AY.
92. BEB sits between BDB and AY.
93. BEB sits between BDB and AY.
94. BEB sits between BDB and AY.
95. BEB sits between BDB and AY.
96. BEB sits between BDB and AY.
97. BEB sits between BDB and AY.
98. BEB sits between BDB and AY.
99. BEB sits between BDB and AY.
100. BEB sits between BDB and AY.

Q11. Who is the father of the boy?

- (a) E
- (b) C
- (c) A
- (d) F
- (e) None of these

Q12. Who is the mother of the girl?

- (a) B
- (b) E
- (c) C
- (d) F
- (e) None of these

Q13. How many persons sit between A and D?

- (a) None
- (b) Two
- (c) Three
- (d) One
- (e) None of these

Q14. What is the position of F with respect to D?

- (a) Third to the right
- (b) Immediate right
- (c) Second to the left
- (d) Immediate to the left
- (e) None of these

Q15. Who among the following sits immediate right of G?

- (a) E
- (b) D
- (c) A
- (d) B
- (e) None of these

Directions

514 658

Q16. If we consider the following order of how many numbers are there between the numbers 514 and 658?

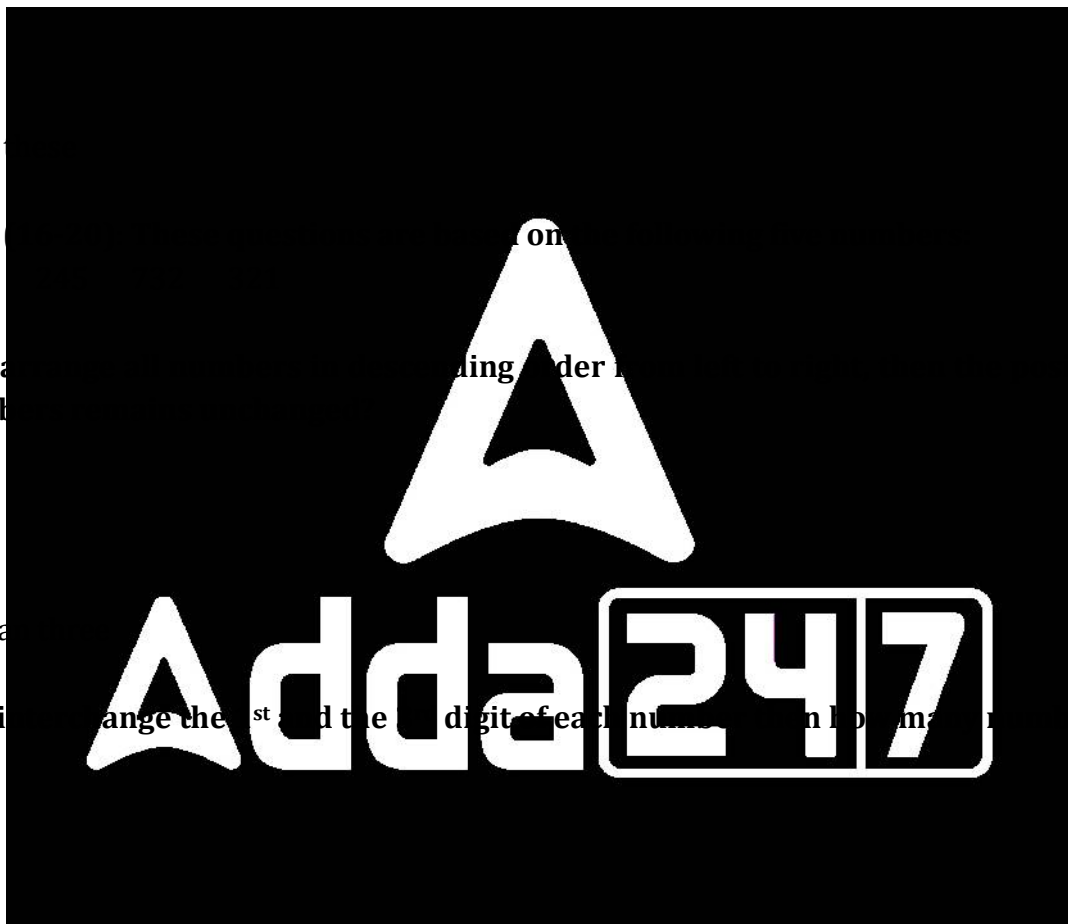
- (a) One
- (b) None
- (c) Three
- (d) Two
- (e) More than three

Q17. If we interchange the 1st and 2nd digit of each number then how many numbers become even?

- (a) Two
- (b) None
- (c) Three
- (d) One
- (e) More than three

Q18. If we interchange 1st and 2nd digit of each number then which of the following number becomes 3rd highest number?

- (a) 514
- (b) 732
- (c) 321
- (d) 245
- (e) 658



Q19. What is the sum of 2nd digit of 3rd number from left, 1st digit of 2nd number from right and 3rd digit of 1st number from left?

- (a) 18
- (b) 22
- (c) 17
- (d) 13
- (e) None of these

Q20. What is the difference between the number which is 2nd and 5th from the left respectively?

- (a) 337
- (b) 227
- (c) 117
- (d) 327
- (e) None of these

Directions
below:

There are nine persons A, B, C, D, E, F, G, H and I. A is the father of B. B is married to C. D is the son of C. E is the daughter of A. F is the father of G. H is the mother of I. I is the daughter of F. N is the father of D. O is the mother of E.

Q21. Who is the brother-in-law of D?

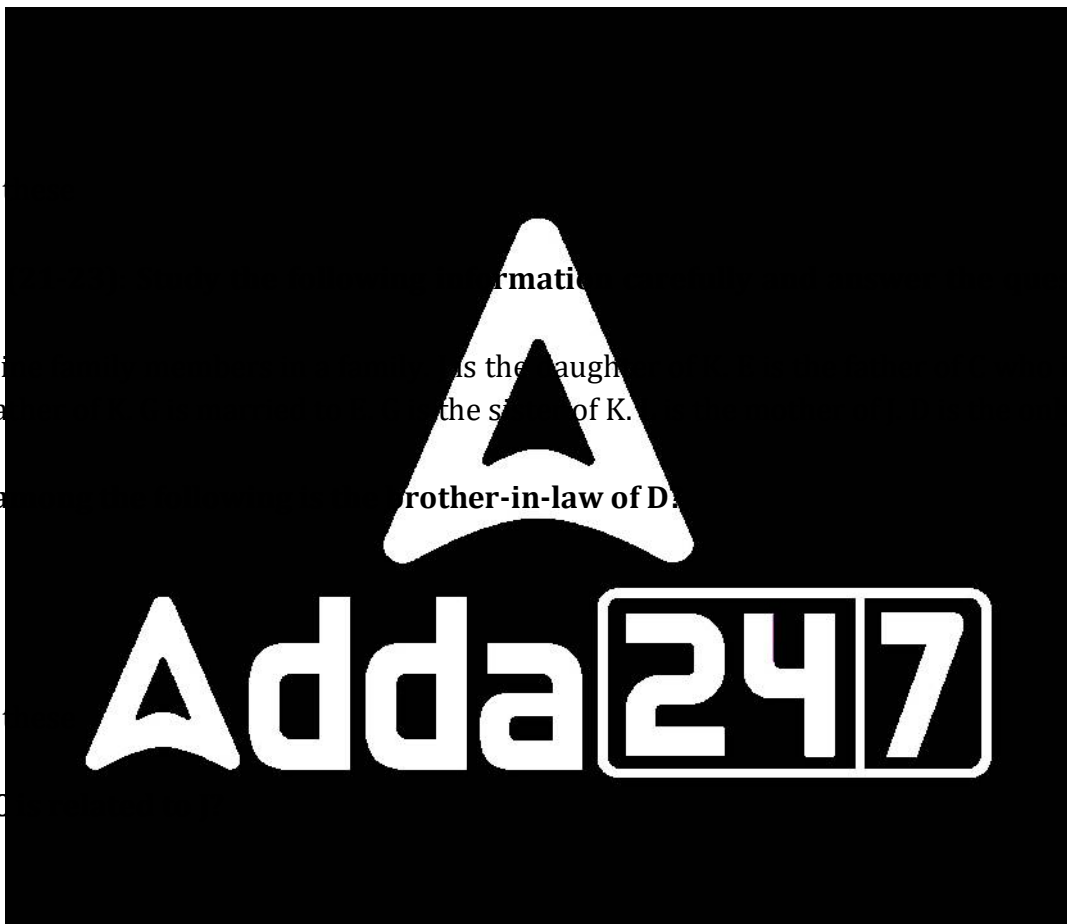
- (a) K
- (b) L
- (c) F
- (d) J
- (e) None of these

Q22. How is C related to D?

- (a) Mother
- (b) Father
- (c) Brother
- (d) Cousin
- (e) None of these

Q23. Who among the following is the uncle of D?

- (a) F
- (b) N
- (c) K
- (d) E
- (e) None of these



(a) One
(b) Two
(c) Three
(d) None
(e) More than Three

Eight persons A, B, C, D, E, F, G and H are facing south. N is sitting second to the right of A and they are facing opposite to each other. M is sitting to the right of B. L is sitting second to the right of C. O is sitting second to the right of D. E. D is sitting second to the right of F. G is sitting second to the right of H.

(a) L
(b) T
(c) D
(d) E
(e) None of these

(a) One
(b) Two
(c) Four
(d) Three
(e) None

(a) T, E
(b) N, D
(c) R, N
(d) E, N
(e) None of these

(a) D
(b) E
(c) B
(d) T
(e) None of these



Q29. Which of the following statement is true about T?

- (a) Two persons sit between T and N
- (b) T and N faces same directions
- (c) T sits immediate right of D
- (d) More than three persons sit between T and R
- (e) Both (b) and (d)

Directions (30-33): In each of the questions below, some statements are given 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 follows from the given facts.

Q30. Statement:

All Moderna are Pfizer.

All Pfizer are Sputnik.

Some Sputnik are Corona.

Conclusion:

I. Some Corona are Moderna.

II. Some Sputnik are Moderna.

(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.

Q31. Statement:

Only a few Corona are Dustbin.

Only Bag is Corona.

No Bag is Garbage.

Conclusion:

I. All Clean are Corona.

II. At least some Dustbin are Bag.

(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.

Q32. Statements:

Some Book are Pen.

Only a few Pen are Glue.

All Glue are Eraser.

Conclusions:

I. Some Glue are not Pen.

II. Some Pen are Eraser is a possibility.

- (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.

Q33. Statements:

All Moderna are Pfizer

All Pfizer ar

Only a few S

Conclusion

I. Some Mod

II. Some Spu

- (a) If only α is true
(b) If only β is true
(c) If either α or β is true
(d) If neither α nor β is true
(e) If both α and β are true

Q34. There

the bottom

- (a) 31
(b) 32
(c) 28
(d) Can't be
(e) None of

Q35. In the word 'EXECUTIVE', how many pairs of the letters have the same number of letters between them (both forward and backward direction) in the word as in the alphabet?

- (a) Four
(b) Two
(c) One
(d) Three
(e) More than four

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

Eight persons are living in an eight-storey building in which the ground floor is numbered as 1 and the topmost floor is numbered as 8.

A live on even numbered floor but above the floor numbered as four. Three persons live between A and E. One person lives between E and H. Two persons live between H and B. Three persons live between B and G. One person lives between C and G, who lives below C's floor. Not more than two persons live between C and D. F lives above D's floor.

Q36. Four of the five following are alike in a certain way so form a group, which of the following does not belong to that group?

- (a) A
- (b) G
- (c) B
- (d) C
- (e) F

Q37. Which

- (a) D lives on
- (b) More than
- (c) D lives just
- (d) D lives on
- (e) None is the

Q38. Who are the persons who live just above H's floor?

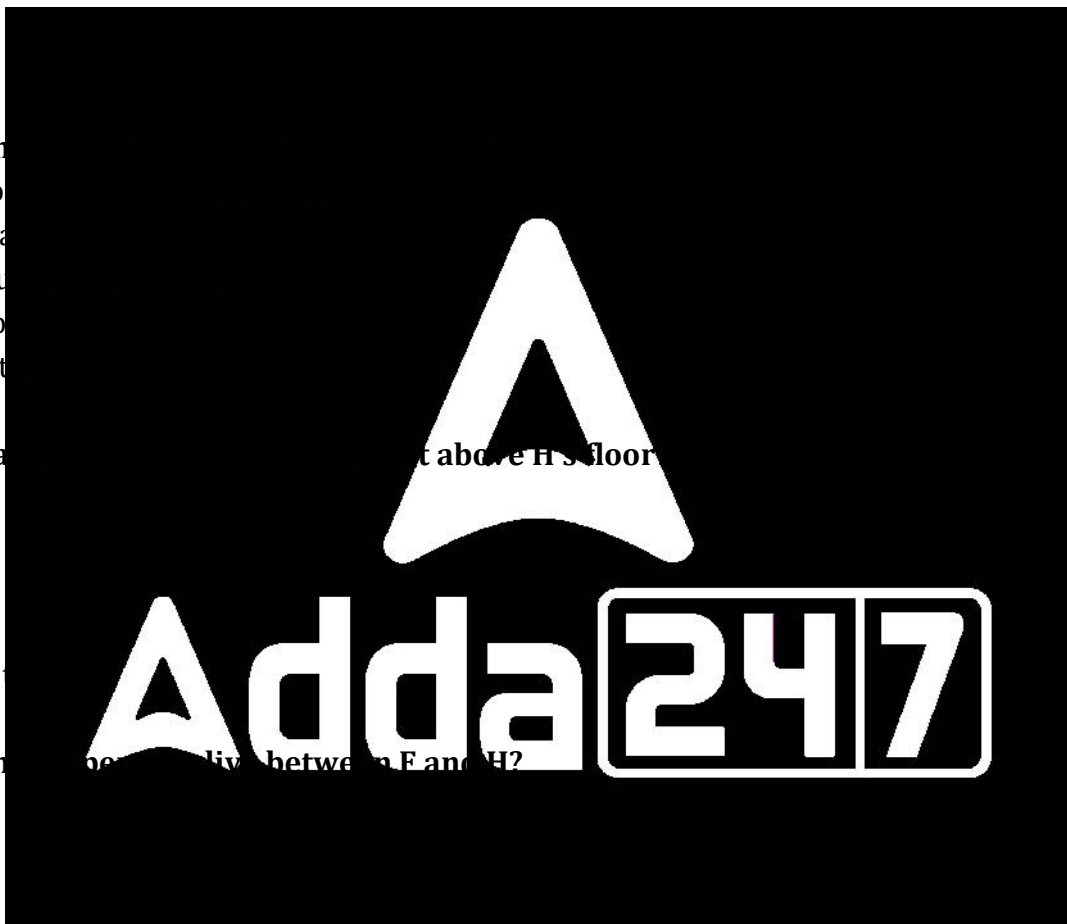
- (a) F
- (b) D
- (c) C
- (d) E
- (e) None of these

Q39. How many persons live between E and H?

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

Q40. The number of persons live between A and B is same as the number of persons live between ___ and ___.

- (a) E, H
- (b) D, F
- (c) B, C
- (d) H, D
- (e) G, E



Directions (41-45): The table given below shows total number of Mouse sold by five different shopkeepers. Study the data carefully and answer the following questions.

	Total Mouse Sold	Wired Mouse: Wireless Mouse
A	840	9: 5
B	650	7: 6
C	750	2: 3
D	480	3: 5
E	550	7: 4

Q41. Total number of wired mouse sold by C?

- (a) 0%
- (b) 50%
- (c) 66.67%
- (d) 100%
- (e) 25%

Q42. What is the total number of mouse sold by A and B and C?

- (a) 25
- (b) 15
- (c) 35
- (d) 20
- (e) 30

Q43. What is the ratio between the wireless mouse sold by shopkeeper B and wired mouse sold by shopkeeper E?

- (a) 3: 4
- (b) 4: 3
- (c) 5: 4
- (d) 6: 7
- (e) 4: 7

Q44. Total number of mouse sold by B and E together is what percentage more or less than total number of mouse sold by C.

-
- (a) 60%
 - (b) 30%
 - (c) 75%
 - (d) 25%
 - (e) 20%

Q45. A shopkeeper - X sold Wired mouse and wireless mouse in the ratio of 23: 29 and total mouse sold by him is 20% more than that by shopkeeper B. Find the difference between the wired mouse and wireless mouse sold by him.

- (a) 120
- (b) 90
- (c) 125
- (d) 160
- (e) 145

Q46. A container contains 10 liter of mixture is in the ratio of 12: 13. If 10 liter of water to mix the mixture, find the new ratio of water to mixture.

- (a) 12: 19
- (b) 13: 21
- (c) 9: 17
- (d) 14: 17
- (e) 3: 8

Q47. Rahul can do a piece of work in 2.5 days less than the time taken by Deepak to complete the work alone. If they work together, they can complete the work in 12 days. Find the time taken by Rahul to complete the work alone.

- (a) 12 days
- (b) 10 days
- (c) 9 days
- (d) 7.5 days
- (e) 12.5 day

Q48. What is the radius of circle which area is 124.74 cm^2 ?

- (a) 4.9 cm
- (b) 6.3 cm
- (c) 0.63 cm
- (d) 0.49 cm
- (e) 7.2 cm

Q49. There were two candidates in an election and 15% of the total voters didn't cast their vote. If 20% of the total cast votes declared invalid and the winning candidate got 50% of the total votes & he win by 3200 votes, then find total number of voters?

-
- (a) 10000
(b) 12000
(c) 15000
(d) 80000
(e) 16000

Q50. A shopkeeper sold article A and article B each at Rs. 1050. On article A, he incurred a loss of 6.25%, while on article B, profit gained by him is $16\frac{2}{3}\%$. Find the sum of cost price (in Rs.) of article A and B?

- (a) 1960
(b) 1920
(c) 2020
(d) 2140
(e) 1980

Q51. Five years ago, the ratio of the ages of Pankaj and Anshu was 3 : 2. The ratio of the ratio of the ages of Pankaj and Anshu after 10 years will be 4 : 3. Find the ratio of the ages of Pankaj and Anshu after 10 years?

- (a) 35 years
(b) 28 years
(c) 56 years
(d) 49 years
(e) 54 years

Q52. Harsh and Veer invested in a business. Harsh invested Rs. 2000 and Veer invested Rs. 4000 respectively. The ratio of the period of investment of Harsh and Veer is 7 : 8. Find the profit share of Harsh if the total profit is Rs. 1500.

- (a) Rs 400
(b) Rs 540
(c) Rs 490
(d) Rs 280
(e) Rs 420

Q53. Jagdish invested Rs X at 12.5% per annum for four years on simple interest in scheme A and he invested same amount in scheme B at 16% per annum on simple interest for three years. If the difference between interest earned from both schemes is Rs. 122, then find the value of X?

- (a) 5200
(b) 4800
(c) 5300
(d) 6100
(e) 6300

Q54. In an examination, the average marks scored by 15 girls of a class is 54 and the average marks scored by 25 boys from the same class is 42. Find the average marks scored by the class?

- (a) 46.5
- (b) 48.5
- (c) 41.5
- (d) 44.5
- (e) 47.5

Q55. Manoj goes office from platform with speed of 12 km/hr and comes back with 10 km/hr. If he takes 5 hr

- (a) 75 km
- (b) 60 km
- (c) 30 km
- (d) 15 km
- (e) 45 km

Directions (1) Place of question in the number series.

Q56. 41, 30,

- (a) 11
- (b) 9
- (c) 10
- (d) 12
- (e) 8

Q57. 16, 47,

- (a) 197
- (b) 193
- (c) 191
- (d) 195
- (e) 189

Q58. ?, 10, 20, 60, 240, 1200

- (a) 5
- (b) 10
- (c) 2
- (d) 20
- (e) 4



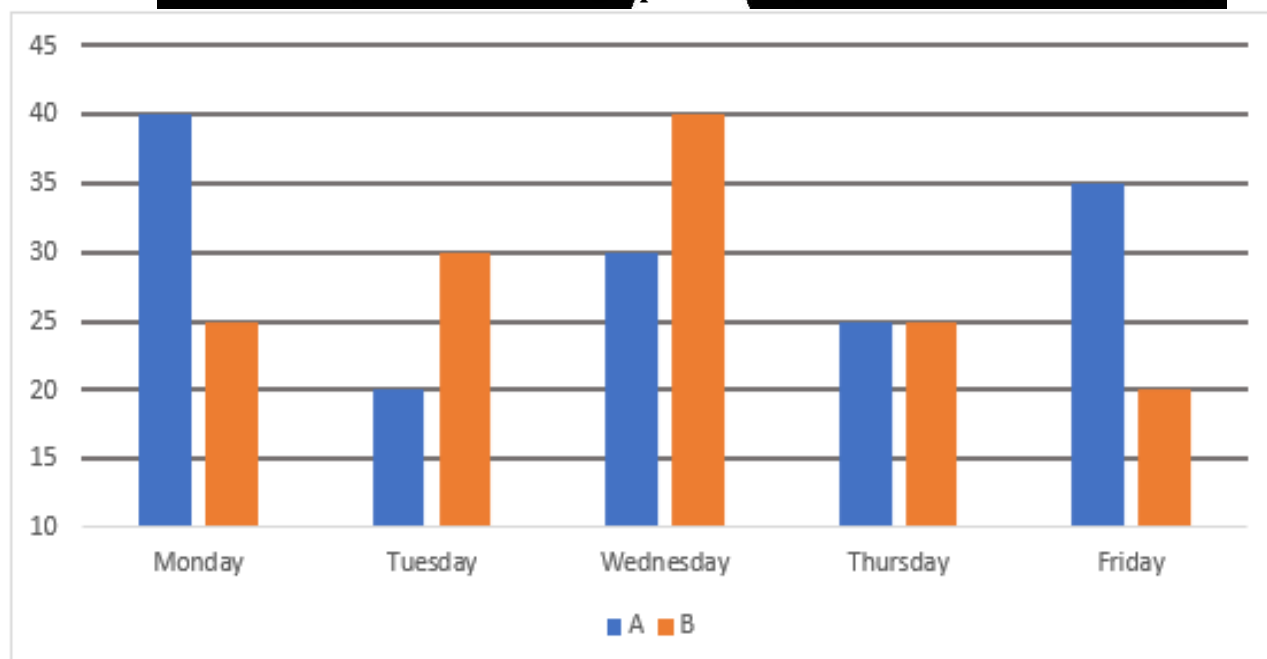
Q59. 8, 21, 47, 86, 138, 203, ?

- (a) 287
- (b) 281
- (c) 372
- (d) 278
- (e) 268

Q60. 11, 12, 16, 43, 59, ?

- (a) 190
- (b) 188
- (c) 186
- (d) 184
- (e) 182

Directions (Questions 61-65) : Study the following bar graph carefully and answer the questions given below.
and B in five days. The following bar graph shows the number of cakes sold by bakeries A and B in five days.



Q61. Total number of cakes sold by A on Monday & Tuesday together is what percentage more or less than total number of cakes sold by both the bakeries together on Thursday?

- (a) 10%
- (b) 25%
- (c) 20%
- (d) 12.5%
- (e) 16%

Q62. Find the average number of cakes sold by B in given five days?

- (a) 25
- (b) 35
- (c) 24
- (d) 28
- (e) 20

Q63. If on Saturday, A sold $28\frac{4}{7}\%$ more cakes than that on Friday and B sold 15% more cakes than that on Wednesday, then find total number of cakes sold by A & B together on Saturday?

- (a) 84
- (b) 91
- (c) 96
- (d) 103
- (e) 89

Q64. Find the ratio of cakes sold by A on Thursday to the cakes sold by B on Wednesday together to the cakes sold by A on Thursday together?

- (a) 15 : 17
- (b) 15 : 19
- (c) 17 : 16
- (d) 12 : 17
- (e) 13 : 15

Q65. Total number of cakes sold by A is how much more or less than that of by B?

- (a) 20
- (b) 10
- (c) 15
- (d) 25
- (e) 5

Directions (66-80): What should come in the place of question (?) mark in the following questions.

Q66. $42 \times \frac{22}{7} + 20\% \text{ of } 530 - 26 = ?$

- (a) 244
- (b) 198
- (c) 236
- (d) 212
- (e) 252

Q67. $(23 \times 23) + 21 \times 7 = ?^2$

- (a) 8
- (b) 38
- (c) 26
- (d) 12
- (e) 44

Q68. $\sqrt{1444} \div 19 + 3.5 \times \sqrt{16} = (?)$

- (a) 16
- (b) 30
- (c) 8
- (d) 26
- (e) 10

Q69. $780 \div 48 \times 16 = ?$

- (a) 280
- (b) 248
- (c) 275
- (d) 242
- (e) 260

Q70. $1486 + 212 - 1704 = ? - (11)^2$

- (a) 95
- (b) 115
- (c) 130
- (d) 102
- (e) 135

Q71. $? \times (8^2 + 26) = 60^2$

- (a) 36
- (b) 60
- (c) 80
- (d) 40
- (e) 20

Q72. $? \% \text{ of } 800 + 8^3 = 1024$

- (a) 60
- (b) 64
- (c) 84
- (d) 72
- (e) 80

Q73. $281 + ? = 32\% \text{ of } 1700$

- (a) 265
- (b) 267
- (c) 261
- (d) 263
- (e) 259

Q74. $2\frac{1}{3} + 3\frac{1}{6} = ? - 1\frac{1}{2}$

- (a) 11
- (b) 6
- (c) 7
- (d) 8
- (e) 9

Q75. $20\% \text{ of } (? + 96) = 30 \times 1.6$

- (a) 128
- (b) 168
- (c) 140
- (d) 144
- (e) 160

Q76. $24\% \text{ of } ? + 48\% \text{ of } 250 = 240$

- (a) 250
- (b) 300
- (c) 500
- (d) 400
- (e) 600

Q77. $\frac{288}{?} + 12^2 = 40\% \text{ of } 420$

- (a) 12
- (b) 8
- (c) 18
- (d) 6
- (e) 24

Q78. $17.5 \times 8 + ? = 20^2 + 100$

- (a) 360
- (b) 240
- (c) 320
- (d) 300
- (e) 400

Q79. $25\% \text{ of } 960 + 24 \times 15 = ?$

- (a) 640
- (b) 720
- (c) 500
- (d) 600
- (e) 400

Q80. $\sqrt[3]{?} + 24^2 = 29.2 \times 20$

- (a) 512
- (b) 64
- (c) 216
- (d) 1000
- (e) 1728



Solutions

S1. Ans.(a)

Sol. 9th to right of 17th from right= 8th from right= A

S2. Ans.(a)

Sol. 2H3

S3. Ans.(e)

Sol. 8 © @

S4. Ans.(d)

Sol. 4ET, 2A

S5. Ans.(c)

Sol. V7*, Y5

S6. Ans.(c)

Sol. Final a

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

Explanation:

Clues: More

person. P is

Inference:

DESIGNATIONS	Case 1	Case 2	Case 3
	PERSONS	PERSONS	PERSONS
HR Manager			S/
Head of Marketing	P	P	
Head of Design	T	T	P
Graphic designer			T
Designer			
Customer service manager	S	S	
Commination officer	U		S/
Buyer assistant		U	U

Clues: R is just senior to V and it is given that V is not a Designer. Not more than one designation is between S and U. V is not junior to P. W is not a customer service manager and Q is not a Designer.

Inference: Only one position is left for W. Case 1 and case 2 get eliminated here. Final arrangement is:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

S7. Ans.(b)

Sol. Final a

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

Explanation

Clues: More than one person has their designations between R and V. R is senior-most person. P is Head of Design. There are three positions between P and T. There is one position between T and Q. There is one position between Q and S. There is one position between S and U.

Inference: From the above clues, we can see that Case 1 and Case 2 are eliminated.

DESIGNATIONS	Case 1	Case 2	Case 3
	PERSONS	PERSONS	PERSONS
HR Manager			S/
Head of Marketing	P	P	
Head of Design	T	T	P
Graphic designer			T
Designer			
Customer service manager	S	S	
Commination officer	U		S/
Buyer assistant		U	U

Clues: R is just senior to V and it is given that V is not a Designer. Not more than one designation is between S and U. V is not junior to P. W is not a customer service manager and Q is not a Designer.

Inference: Only one position is left for W. Case 1 and case 2 get eliminated here. Final arrangement is:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

S8. Ans.(c)

Sol. Final arrangement:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

Explanation:

Clues: More senior-most person. P is to P.

Inference:

DESIGNATIONS	Case 1	Case 2	Case 3
	PERSONS	PERSONS	PERSONS
HR Manager			S/
Head of Marketing	P	P	
Head of Design	T	T	P
Graphic designer			T
Designer			
Customer service manager	S	S	
Commination officer	U		S/
Buyer assistant		U	U

Clues: R is between S and U. Designation is designer.

Inference: Final arrangement is:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

S9. Ans.(b)

Sol. Final arrangement:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

Explanation:

Clues: More than three persons have their designations between P and U. P is not the senior-most person. P is senior to U. Only two designations are there between S and T who is just junior to P.

Inference: Here we have three possible cases i.e., case1, case2 and case3.

DESIGNATIONS	Case 1	Case 2	Case 3
	PERSONS	PERSONS	PERSONS
HR Manager			S/
Head of Marketing	P	P	
Head of Design	T	T	P
Graphic designer			T
Designer			
Customer service manager	S	S	
Commination officer	U		S/
Buyer assistant		U	U

Clues: R is a registered professional engineer. The designation is between S and T. S is a registered professional designer.

Inference: C and D are independent. Management is:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

S10. Ans. (e)
Sol. Final ar

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buwer assistant	U

Explanation:

Clues: More than three persons have their designations between P and U. P is not the senior-most person. P is senior to U. Only two designations are there between S and T who is just junior to P.

Inference: Here we have three possible cases i.e., case1, case2 and case3.

DESIGNATIONS	Case 1	Case 2	Case 3
	PERSONS	PERSONS	PERSONS
HR Manager			S/
Head of Marketing	P	P	
Head of Design	T	T	P
Graphic designer			T
Designer			
Customer service manager	S	S	
Commination officer	U		S/
Buyer assistant		U	U

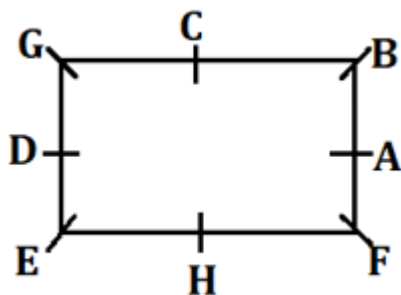
Clues: R is just senior to V and it is given that V is not a Designer. Not more than one designation is between S and U. V is not junior to P. W is not a customer service manager and Q is not a Designer.

Inference: C is not a Designer. Management is:

DESIGNATIONS	PERSONS
HR Manager	R
Head of Marketing	V
Head of Design	P
Graphic designer	T
Designer	W
Customer service manager	Q
Commination officer	S
Buyer assistant	U

S11. Ans.(b)

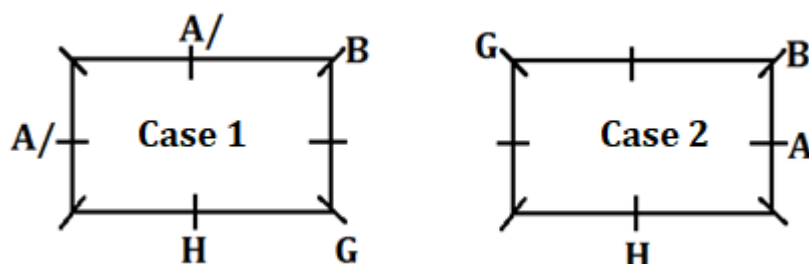
Sol. Final ar



Explanation

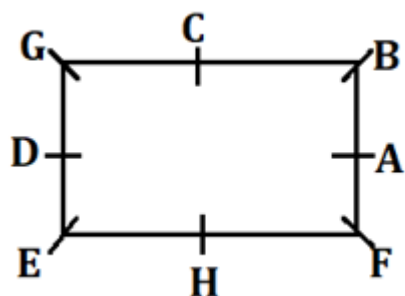
Clues: B sits third to right of H. B does not sit any of the middle side of table. One person sits between B and G. Two persons sit between G and A.

Inference: There are two possibilities-



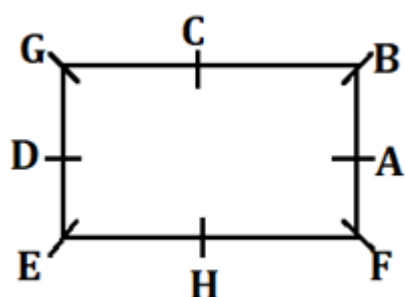
Clues: C sits second to right of A. Two persons sit between C and F. B does not sit opposite to F and D.

Inference: From the above conditions case-1 will be eliminated. Final arrangement:



S12. Ans.(d)

Sol. Final ar

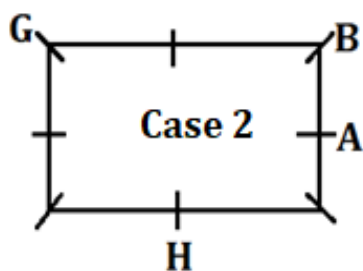
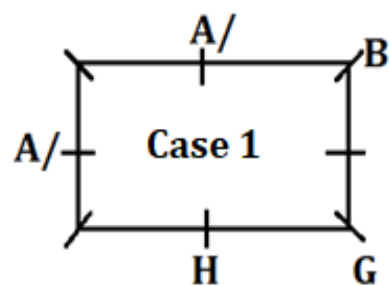


Explanation

Clues: B sits ... not sit any of the middle ... sits between

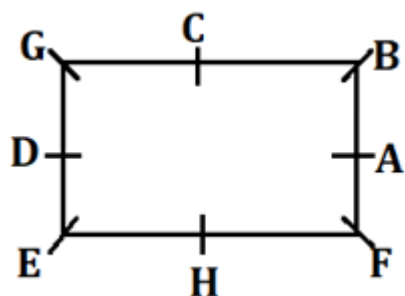
B and G. Two ... A.

Inference: ...



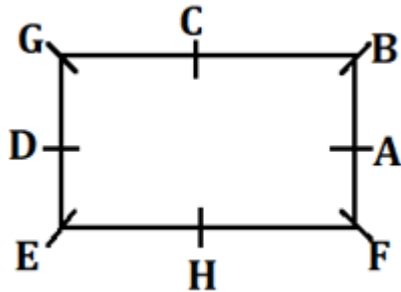
Clues: C sits second to right of A. Two persons sit between C and F. B does not sit opposite to F and D.

Inference: From the above conditions case-1 will be eliminated. Final arrangement:



S13. Ans.(c)

Sol. Final arrangement:



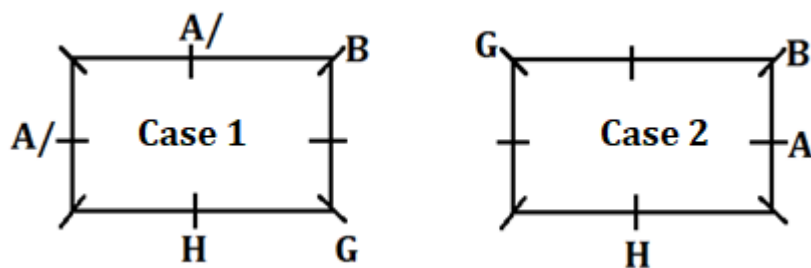
Explanation:

Clues: B sits

sits between

B and G. Two

Inference: "



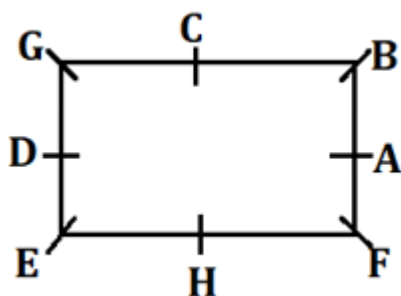
Clues: C sits

persons sit between C and

to F and D.

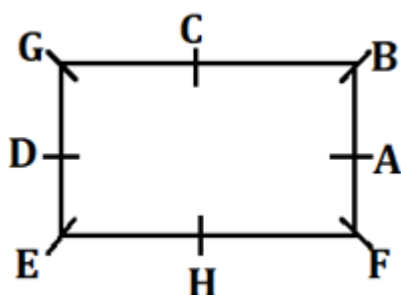
Inference: "

case 1 and case 2.



S14. Ans.(a)

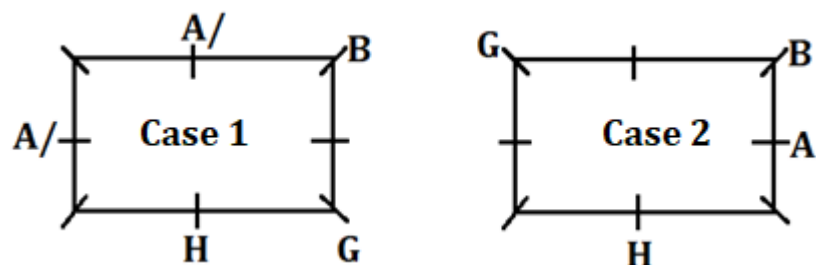
Sol. Final arrangement:



Explanation:

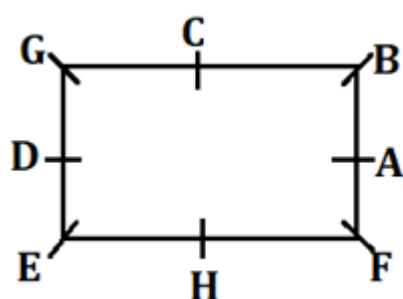
Clues: B sits third to right of H. B does not sit any of the middle side of table. One person sits between B and G. Two persons sit between G and A.

Inference: There are two possibilities-



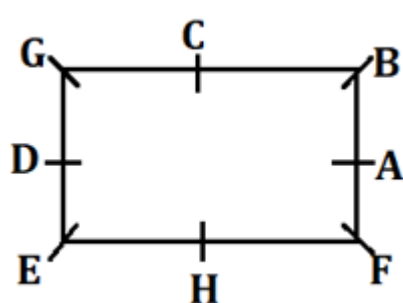
Clues: C sits third to right of H. C does not sit any of the middle side of table. One person sits between C and F. Two persons sit between F and D.

Inference: There are two possibilities-



S15. Ans.(b)

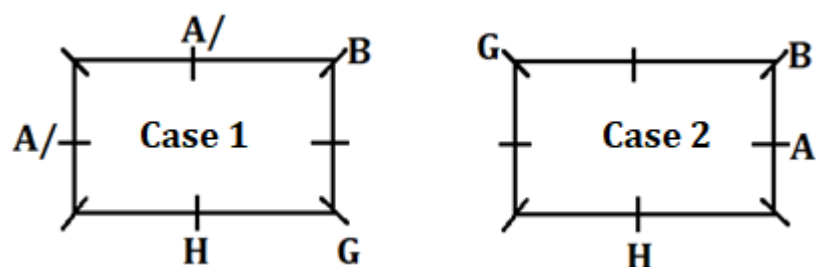
Sol. Final answer



Explanation:

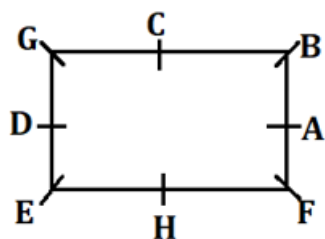
Clues: B sits third to right of H. B does not sit any of the middle side of table. One person sits between B and G. Two persons sit between G and A.

Inference: There are two possibilities-



Clues: C sits second to right of A. Two persons sit between C and F. B does not sit opposite to F and D.

Inference: From the above conditions case-1 will be eliminated. Final arrangement:



S16. Ans.(a)

Sol.

514	658	245	732	321
732	658	514	321	245

S17. Ans.(a)

Sol.

514	658	245	732	321
415	856	542	237	123

S18. Ans.(b)

Sol.

514	658	245	732	321
154	568	425	372	231

S19. Ans.(e)

Sol.

2nd digit of 3rd number from left = 4

1st digit of 2nd number from right = 7

3rd digit of 1st number from left = 4

So, $4 + 7 + 4 = 15$

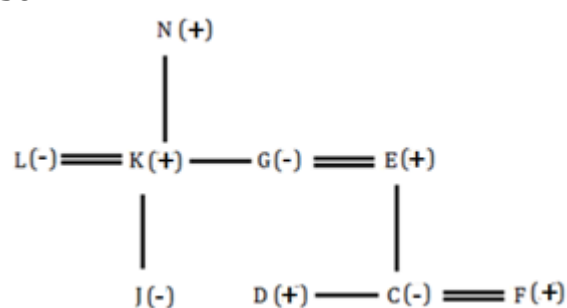
S20. Ans.(a)

Sol.

2nd and 5th from the left respectively = $658 - 321 = 337$

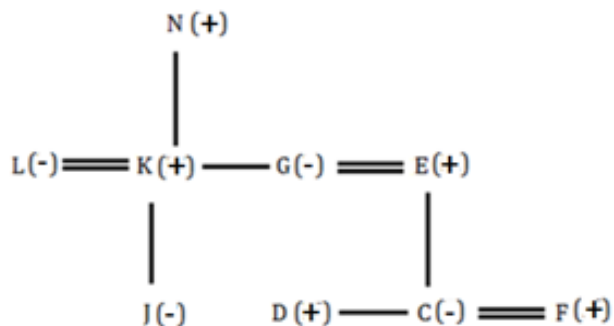
S21. Ans.(c)

Sol.



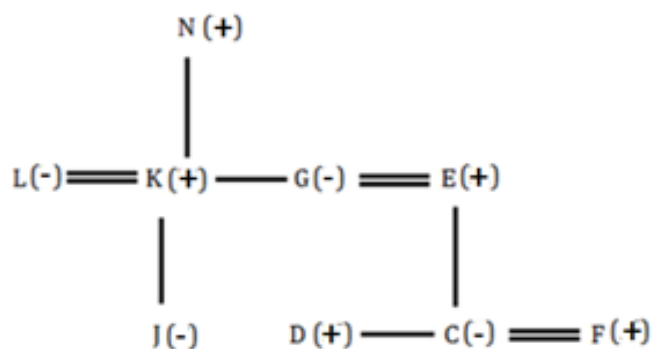
S22. Ans.(d)

Sol.



S23. Ans.(c)

Sol.



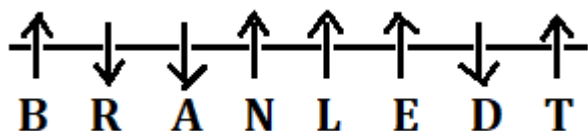
S24. Ans.(b)

Sol.

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

S25. Ans.(d)

Sol. Final arrangement:

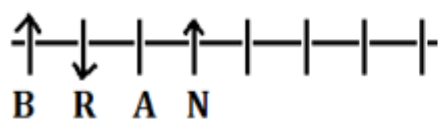


Explanation:

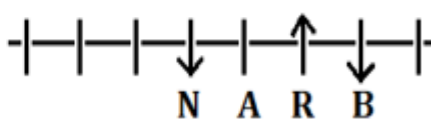
Clues: N is sitting fourth from the left end of the row. R is sitting second to the left of N and they are facing opposite directions. B is sitting to the immediate right of R. A is sitting second to the right of B.

Inference: From the above conditions there are two possibilities.

Case-1

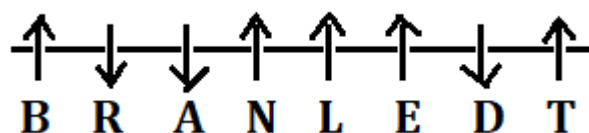


Case-2



Clues: L is sitting second to the left of A. E is sitting to the immediate right of L. T is sitting second to the right of E. D is sitting to the immediate left of T and they are facing opposite directions.

Inference: From these conditions case-2 will be eliminated. The final arrangement is:



S26. Ans.(c)

Sol. Final arrangement:

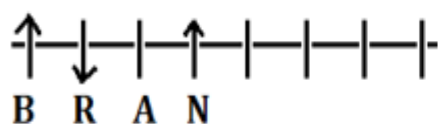


Explanation:

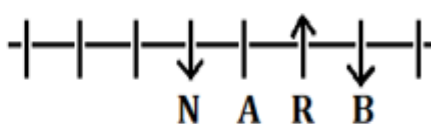
Clues: N is sitting second to the left of A. R is sitting to the immediate right of N and they are facing opposite directions. E is sitting to the immediate right of L. T is sitting second to the right of E. D is sitting to the immediate left of T and they are facing opposite directions.

Inference: From these conditions there are two possibilities.

Case-1



Case-2



Clues: L is sitting second to the left of A. E is sitting to the immediate right of L. T is sitting second to the right of E. D is sitting to the immediate left of T and they are facing opposite directions.

Inference: From these conditions case-2 will be eliminated. The final arrangement is:



S27. Ans.(b)

Sol. Final arrangement:



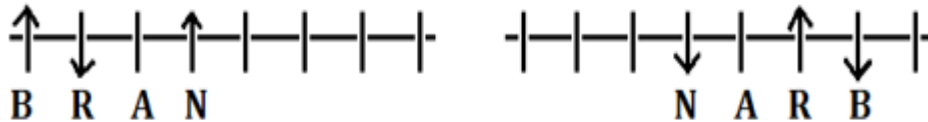
Explanation:

Clues: N is sitting fourth from the left end of the row. R is sitting second to the left of N and they are facing opposite directions. B is sitting to the immediate right of R. A is sitting second to the right of B.

Inference: From the above conditions there are two possibilities.

Case-1

Case-2



Clues: L is sitting second to the left of A. E is sitting to the immediate right of L. T is sitting second to the right of E. D is sitting to the immediate left of T and they are facing opposite directions.

Inference:



S28. Ans.(a)

Sol. Final arrangement:



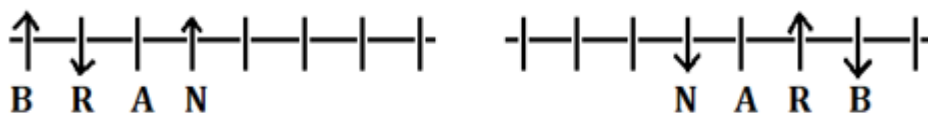
Explanation:

Clues: N is sitting fourth from the left end of the row. R is sitting second to the left of N and they are facing opposite directions. B is sitting to the immediate right of R. A is sitting second to the right of B.

Inference: From the above conditions there are two possibilities.

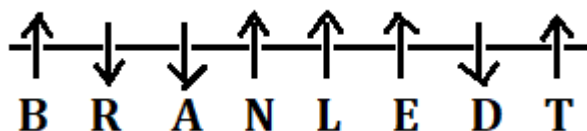
Case-1

Case-2



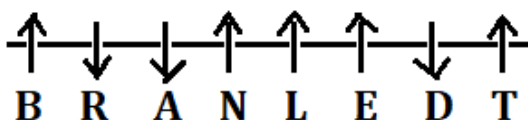
Clues: L is sitting second to the left of A. E is sitting to the immediate right of L. T is sitting second to the right of E. D is sitting to the immediate left of T and they are facing opposite directions.

Inference: From these conditions case-2 will be eliminated. The final arrangement is:



S29. Ans.(e)

Sol. Final arrangement:



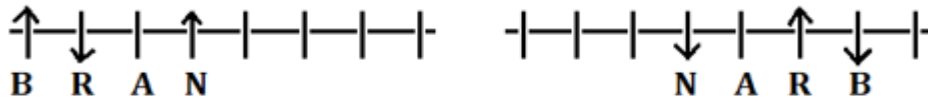
Explanation:

Clues: N is sitting fourth from the left end of the row. R is sitting second to the left of N and they are facing opposite directions. B is sitting to the immediate right of R. A is sitting second to the right of B.

Inference: From the above conditions there are two possibilities.

Case-1

Case-2



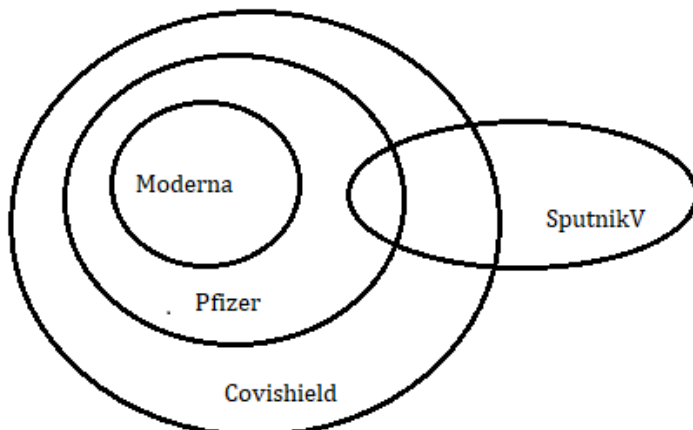
Clues: L is sitting second to the left of A. E is sitting to the immediate right of L. T is sitting second to the right of E. D is sitting to the immediate left of T and they are facing opposite directions.

Inference: From these conditions case-2 will be eliminated. The final arrangement is:



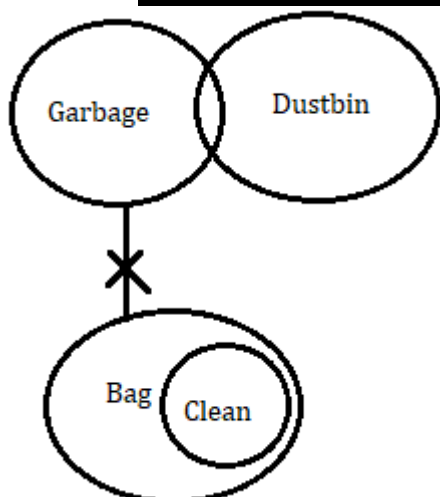
S30. Ans.(a)

Sol.



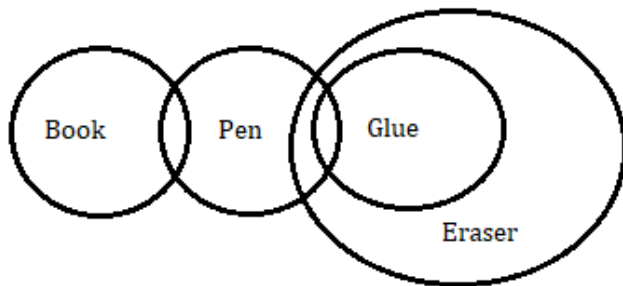
S31. Ans.(d)

Sol.



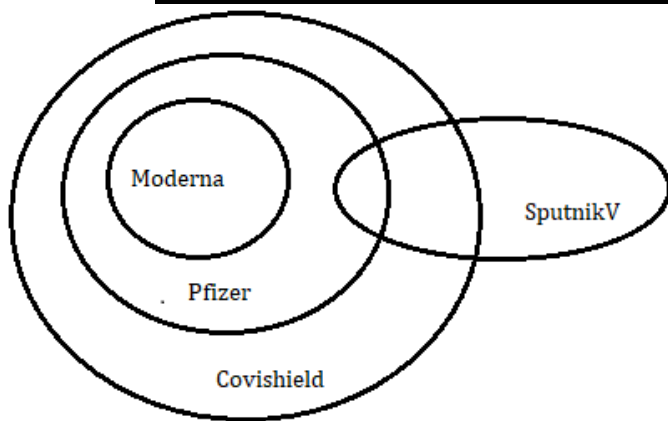
S32. Ans.(d)

Sol.



S33. Ans.(b)

Sol.



S34. Ans.(b)

Sol. $45 - (5 + 8) = 45 - 13 = 32$

S35. Ans.(e)

Sol.



S36. Ans.(a)

Sol. Final arrangement:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

Explanation:

Clues: A lives on an even numbered floor but above the floor numbered as four. Three persons live between A and E. Only one person lives between E and H.

Inference: There are two possibilities.

Floors	Case-1	Caes-2
	Persons	Persons
8		A
7		
6	A	H/
5		
4	H	E
3		
2	E	H/
1		

Clues: Two persons live between C and A. One person lives between D and F. F lives above D's floor.

Inference: There will be either two possibilities.

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

S37. Ans.(b)

Sol. Final arrangement

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

Explanation:

Clues: A lives on an even numbered floor but above the floor numbered as four. Three persons live between A and E. Only one person lives between E and H.

Inference: There are two possibilities.

Floors	Case-1 Persons	Caes-2 Persons
8		A
7		
6	A	H/
5		
4	H	E
3		
2	E	H/
1		

Clues: Two persons live between H and B. Three persons live between B and G. One person lives between C and G, who lives below C's floor. Not more than two persons live between C and D. F lives above D's floor.

Inference:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

S38. Ans.(c)

Sol. Final arrangement

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

Explanation:

Clues: A lives on the 8th floor. Two persons live between A and E. Only one person lives between E and H.

Inference: There are two possibilities.

Floors	Case-1 Persons	Caes-2 Persons
8		A
7		
6	A	H/
5		
4	H	E
3		
2	E	H/
1		

Clues: Two persons live between H and B. Three persons live between B and G. One person lives between C and G, who lives below C's floor. Not more than two persons live between C and D. F lives above D's floor.

Inference: From the above conditions case-1 will be eliminated. The final arrangement is:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

S39. Ans. (d)

Sol. Final arrangement is:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

Explanation:

Clues: A lives on an even numbered floor but above H. For room no. 8, only one person lives between A and F. Only one person lives between E and H.

Inference: There are two possibilities:

Floors	Case-1 Persons	Caes-2 Persons
8		A
7		
6	A	H/
5		
4	H	E
3		
2	E	H/
1		

Clues: Two persons live between H and B. Three persons live between B and G. One person lives between C and G, who lives below C's floor. Not more than two persons live between C and D. F lives above D's floor.

Inference: From the above conditions case-1 will be eliminated. The final arrangement is:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

S40. Ans.(e)

Sol. Final arrangement:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

Explanation:

Clues: A lives on the top floor. Not more than two persons live between A and H. H lives on the 2nd floor.

Inference: From the above conditions case-1 will be eliminated. The final arrangement is:

Floors	Case-1 Persons	Caes-2 Persons
8		A
7		
6	A	H/
5		
4	H	E
3		
2	E	H/
1		

Clues: Two persons live between C and G, who lives below C's floor. Not more than two persons live between C and D. F lives above D's floor.

Inference: From the above conditions case-1 will be eliminated. The final arrangement is:

Floor	Persons
8	A
7	F
6	D
5	B
4	E
3	C
2	H
1	G

S41. Ans.(d)

Sol.

$$\text{Wireless mouse sold by D} = \frac{480}{8} \times 5 = 300$$

$$\text{Wired mouse sold by C} = 750 \times \frac{2}{5} = 300$$

$$\text{So, required percentage} = \frac{300}{300} \times 100 = 100\%$$

S42. Ans.(c)

Sol.

$$\text{Average wired mouse sold by A and B} = \frac{1}{2} \times \left[840 \times \frac{9}{14} + 650 \times \frac{7}{13} \right]$$

$$= \frac{1}{2} \times [540 + 350] = 445$$

$$\text{So, required difference} = 480 - 445 = 35$$

S43. Ans.(d)

Sol.

$$\text{Wireless mouse sold by B} = 650 \times \frac{6}{13} = 300$$

$$\text{Wired mouse sold by E} = 550 \times \frac{7}{11} = 350$$

$$\text{So, required ratio} = \frac{300}{350} = \frac{6}{7}$$

S44. Ans.(a)

Sol.

$$\text{Required percentage} = \frac{(650+550)-750}{750} \times 100$$

$$= \frac{450}{750} \times 100$$

$$= 60\%$$

S45. Ans.(b)

Sol.

$$\text{Total mouse sold by shopkeeper} - X = 650 \times \frac{120}{100} = 780$$

$$\text{So, required difference} = 780 \times \frac{(29-23)}{52} = 90$$

S46. Ans.(b)

Sol.

$$\text{Initial quantity of water in mixture} = 160 \times \frac{3}{10} = 48 \text{ liter}$$

$$\text{Initial quantity of milk in mixture} = 160 - 48 = 112 \text{ liter}$$

ATQ,

$$\text{Quantity of water in final mixture} = 48 - \frac{3}{10} \times 10 + 20 = 65 \text{ liter}$$

$$\text{Quantity of milk in final mixture} = 112 - \frac{7}{10} \times 10 = 105 \text{ liter}$$

$$\text{So, required ratio} = \frac{65}{105} = 13 : 21$$

S47. Ans.(b)

Sol.

Time taken by Rahul and Ayush together to complete the work = $\frac{12 \times 20}{12 + 20}$

= 7.5 days

So, required time = 7.5 + 2.5 = 10 days

S48. Ans.(b)

Sol.

Let radius of circle is 'r' cm.

ATQ,

$$\pi r^2 = 124.74$$

$$\frac{22}{7} \times r^2 = 124.74$$

$$r^2 = \frac{124.74 \times 7}{22}$$

$$r^2 = 5.67 \times 7$$

$$r^2 = 7 \times 0.81 \times 7$$

$$r = 7 \times 0.9$$

$$r = 6.3 \text{ cm}$$

S49. Ans.(a)

Sol.

Let total number voters be 100x.

$$\text{No. of voters who didn't cast their votes} = 100x \times \frac{15}{100} = 15x$$

$$\text{No. of invalid votes} = (100x - 15x) \times \frac{20}{100} = 17x$$

$$\text{So, total valid casted votes} = 100x - 15x - 17x = 68x$$

$$\text{No. of votes in favor of winning candidate} = \frac{50}{100} \times 100x = 50x$$

$$\text{No. of votes in favor of losing candidate} = 68x - 50x = 18x$$

ATQ

$$50x - 18x = 3200$$

$$32x = 3200$$

$$x = \frac{3200}{32} = 100$$

So, required no. of voters = 100x = 10000

S50. Ans.(c)

Sol.

$$\text{Cost price of article A} = 1050 \times \frac{100}{93.75} = 1120 \text{ Rs.}$$

$$\text{Cost price of article B} = 1050 \times \frac{6}{7} = 900 \text{ Rs.}$$

So, required sum = 1120 + 900 = 2020 Rs.

S51. Ans.(e)

Sol.

Let the ages of Pankaj and Pradeep five year ago be $4x$ and $7x$ respectively.

ATQ,

$$\frac{4x+7}{7x+7} = \frac{5}{8}$$

$$32x + 56 = 35x + 35$$

$$35x - 32x = 56 - 35$$

$$3x = 21$$

$$x = 7$$

So, present age of Pradeep = $(7x + 5) = (7 \times 7 + 5) = 54 \text{ years}$

S52. Ans.(a)

Sol.

Ratio of profit share of Harsh to Veer = $2500 \times 7 : 4000 \times 5$
 $= 175 : 200$

$$= 7 : 8$$

So, profit share of Veer = $\frac{350}{7} \times 8 = \text{Rs } 400$

S53. Ans.(d)

Sol.

ATQ

$$\frac{X \times 12.5 \times 4}{100} - \frac{X \times 16 \times 3}{100} = 122$$

$$\frac{50X}{100} - \frac{48X}{100} = 122$$

$$X = 122 \times \frac{100}{2}$$

$$X = 6100$$

S54. Ans.(a)

Sol.

$$\text{Required average} = \frac{15 \times 54 + 25 \times 42}{15 + 25}$$

$$= \frac{810 + 1050}{40}$$

$$= 46.5$$

S55. Ans.(c)

Sol.

Let distance between office and platform be D km.

ATQ

$$\frac{11}{2} = \frac{D}{12} + \frac{D}{10}$$

$$\frac{11}{2} = \frac{11D}{60}$$

$$D = 30 \text{ km}$$

S56. Ans.(e)

Sol.

The pattern of the series is –

$$41 - 11 = 30$$

$$30 + 22 = 52$$

$$52 - 33 = 19$$

$$19 + 44 = 63$$

$$? = 63 - 55 = 8$$

S57. Ans.(c)

Sol.

The pattern of the series is –

$$16 + 31 = 47$$

$$47 + 33 = 80$$

$$80 + 35 = 115$$

$$115 + 37 = 152$$

$$? = 152 + 39 = 191$$

S58. Ans.(b)

Sol.

The pattern of the series is –

$$10 \times 1 = 10$$

$$10 \times 2 = 20$$

$$20 \times 3 = 60$$

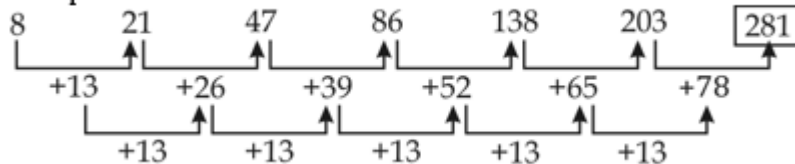
$$60 \times 4 = 240$$

$$240 \times 5 = 1200$$

S59. Ans.(b)

Sol.

The pattern of the series is –



S60. Ans.(d)

Sol.

The pattern of the series is –

$$11 + 1^3 = 12$$

$$12 + 2^2 = 16$$

$$16 + 3^3 = 43$$

$$43 + 4^2 = 59$$

$$? = 59 + 5^3 = 184$$

S61. Ans.(c)

Sol.

$$\begin{aligned}\text{Required percentage} &= \frac{(40+20)-(25+25)}{(25+25)} \times 100 \\ &= \frac{10}{50} \times 100 = 20\%\end{aligned}$$

S62. Ans.(d)

Sol.

$$\begin{aligned}\text{Required average} &= \frac{1}{5} \times [25 + 30 + 40 + 25 + 20] \\ &= \frac{140}{5} = 28\end{aligned}$$

S63. Ans.(b)

Sol.

$$\begin{aligned}\text{Number of cakes sold by A on Saturday} &= 35 \times \frac{9}{7} = 45 \\ \text{Number of cakes sold by B on Saturday} &= 40 \times \frac{115}{100} = 46 \\ \text{So, required sum} &= 45 + 46 = 91\end{aligned}$$

S64. Ans.(a)

Sol.

$$\begin{aligned}\text{Required ratio} &= \frac{20+30+25}{40+25+20} \\ &= \frac{75}{85} = \frac{15}{17}\end{aligned}$$

S65. Ans.(b)

Sol.

$$\begin{aligned}\text{Total number of cakes sold by A in these five days} &= 40 + 20 + 30 + 25 + 35 = 150 \\ \text{Total number of cakes sold by B in these five days} &= 25 + 30 + 40 + 25 + 20 = 140 \\ \text{So, required difference} &= 150 - 140 = 10\end{aligned}$$

S66. Ans.(d)

Sol.

$$\begin{aligned}42 \times \frac{22}{7} + 20\% \text{ of } 530 - 26 &=? \\ ? &= 132 + 106 - 26 = 212\end{aligned}$$

S67. Ans.(c)

Sol.

$$\begin{aligned}(23 \times 23) + 21 \times 7 &=?^2 \\ ?^2 &= 529 + 147 \approx 676 \\ ? &= 26\end{aligned}$$

S68. Ans.(a)

Sol.

$$\sqrt{1444} \div 19 + 3.5 \times \sqrt{16} \approx ?$$

$$? = \frac{38}{19} + 3.5 \times 4$$

$$? = 2 + 14 = 16$$

S69. Ans.(e)

Sol.

$$\frac{780}{48} \times 16 = ?$$

$$? = \frac{780}{3} = 260$$

S70. Ans.(b)

Sol.

$$1486 + 212 - 1704 = ? - (11)^2$$

$$? = 1698 - 1704 + 121 = 115$$

S71. Ans.(d)

Sol.

$$? \times (64 + 26) = 3600$$

$$? = \frac{3600}{90}$$

$$? = 40$$

S72. Ans.(b)

Sol.

$$? \times \frac{800}{100} = 1024 - 512$$

$$? = \frac{512}{8}$$

$$? = 64$$

S73. Ans.(d)

Sol.

$$281 + ? = \frac{32}{100} \times 1700$$

$$? = 544 - 281$$

$$? = 263$$

S74. Ans.(c)

Sol.

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

$$? = 7$$

S75. Ans.(d)

Sol.

$$\frac{20}{100} \times (? + 96) = 48$$

$$? + 96 = 48 \times \frac{100}{20}$$

$$? + 96 = 240$$

$$? = 240 - 96$$

$$? = 144$$

S76. Ans.(c)

Sol.

$$\frac{24}{100} \times ? + \frac{48}{100} \times 250 = 240$$

$$\frac{24}{100} \times ? = 240 - 120$$

$$\frac{24}{100} \times ? = 120$$

$$? = 120 \times \frac{100}{24}$$

$$? = 500$$

S77. Ans.(a)

Sol.

$$\frac{288}{?} + 144 = \frac{40}{100} \times 420$$

$$\frac{288}{?} = 168 - 144$$

$$? = \frac{288}{24}$$

$$? = 12$$

S78. Ans.(a)

Sol.

$$140 + ? = 400 + 100$$

$$? = 500 - 140$$

$$? = 360$$

S79. Ans.(d)

Sol.

$$\frac{25}{100} \times 960 + 360 = ?$$

$$? = 240 + 360$$

$$? = 600$$

S80. Ans.(a)

Sol.

$$\sqrt[3]{?} + 576 = 584$$

$$\sqrt[3]{?} = 8$$

$$? = 512$$