

### Reasoning Test-3+5(Main)

**Direction(1-4):- Study the following information carefully and answer the given questions.**

Ten persons A to J are attending the exam on different days in a week from Monday to Sunday at three different slots – Slot 1, Slot 2 and Slot 3. Each of them attends the exam at least once but not more than twice in a week. No one attends the exam twice in a day and on consecutive slots. There must be three persons attending the exam in a single day on three different days but in alternate days. Remaining four days two persons attend the exam in a single day.

**Note-I:** If it is given that only one day between X and Y, then both are attending in the same slot.

**Note-II:** If it is given that A attends immediately before/after B in slot A, then both of them attend on consecutive days of the same slot while A attends immediately after B but not in the same slot, then both of them attend on consecutive days but not in the same slot.

G attends in slot 3 after attending slot 1 and both are after Wednesday but not on immediate days. F attends on the same day with G. Only one day is between E and F. I attend on the same day as E but neither in slot 1 nor in slot 3. I doesn't attend the exam on Saturday. B attends immediately before D in slot 1. As many persons attend before D as after A both are in the same slot. A doesn't attend the exam before D. H attends immediately after A but not in the same slot. E attends on the same day with H. C attends immediately after E in the same slot. The number of days before C is two less than the number of days after D in any one slot. J attends three days before B in different slots. C doesn't attend exams on the first day of the week.

**Q1. Which of the following statement(s) is/are true with respect to J?**

**I.** J attends the exam only one slot in a single day

**II.** J attends the exam exactly in the middle of the week

**III.** C and F are the persons attending with J

**IV.** Only two persons along with J attended the slot in which H attended.

1. Only I, III and IV    2. Only II, III and IV    3. Only I, II and IV    4. Only I and III

5. Only II and III

**Q2. In which of the following days the second slot is not attended by any person?**

**I.** Monday    **II.** Tuesday    **III.** Thursday    **IV.** Friday

1. Both II and III    2. Both I and IV    3. Only II    4. Both I and III    5. Only III

**Q3. If a person got 70 marks on slot 1 of 1<sup>st</sup> day of a week, then the marks of the person increased by 2 on continuous slots on each day, then Who among the following persons got 82, 94, 98, and 102 respectively?**

1. D, F, H and C    2. A, J, E and C    3. A, E, G and C    4. E, D, F and B    5. A, E, G and B

**Q4. As many persons attend the exam before\_\_ as after\_\_.**

1. B, who attended in slot 1, H    2. J, C, who attended in slot 3    3. A who attended in slot 1, E who attended in slot 3    4. G who attended in slot 1, F who attended in slot 3    5. C who attended in slot 1, F who attended in slot 3

**Q5. Which of the following statement(s) is/are not true with respect to J?**

1. J attends immediately after D    2. B is the last one attending the last slot of the week    3. A attends with C on one day and with D on another day    4. G attends with only one person on Friday    5. No one attends before F when he attends in slot 1

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

Twelve persons A to L are sitting around the two square tables-T1 and T2, where the persons sitting in T1 are sitting only in the middle of the sides, facing towards the center and the persons sitting in T2 are sitting in such a way that four of them are sitting at the corners and facing the center while four of them are sitting in the middle of the sides and facing outside (opposite to the center). They are working in four different banks viz., SBI, IOB, BOB, and HDFC. At least two persons but not more than four persons are working together. The persons sitting in table 1 are working in different banks.

A and H sit at different tables but they are working in the same bank. B sits second to the right of H, who doesn't work in BOB and works with only one person. The number of persons working in HDFC, who are all facing the center is equal to the number of persons working in HDFC, who are all facing outside. F sits opposite to B. I sits immediate left of F but works with B. E works in the same bank as I but does not sit at the same table. C neither works in BOB nor IOB but C sits opposite to A, who doesn't work in IOB. D and L sit immediate left of each other. F sits third to the right of the one who works in HDFC. L neither works in BOB nor IOB but sits opposite to the one who works in SBI. G sits opposite to the one who works in BOB. The one who works in BOB doesn't sit immediate left of A. J sits second to the left of G, both are working in the same bank. The persons working in the bank which has the least number of persons doesn't face a different direction. As many persons working with E as working with K.

**Q6. Which of the following statement(s) is/are true with respect to the final arrangement?**

**I.** L works in the bank which has the maximum persons working on it.

**II.** The number of persons working in the bank in which A works is half the number of persons working in the bank in which J works.

**III.** As many persons working in IOB as the persons work with C

1. Only II    2. Both I and II    3. All I, II and III    4. Only I    5. Both II and III

**Q7. As many persons sit between \_\_ and \_\_ as between \_\_ and \_\_ when counted from the right of both \_\_ and \_\_.**

1. C, K, H, L, C, L    2. the one who sits immediate left of F, B, D, G, D, I A, E, H, G, A, H    3. The one who sits immediate right of G, D, the one who sits immediate left of B, 4. L, D, L    5. G, D, A, E, D, A

**Q8. Who among the following persons sits third to the right of the one who sits second to the left of the one who works in the same bank as well as faces the same direction as K in table 2?**

**I.** The one who works in HDFC    **II.** The one who sits second to the left of B

**III.** The one who sits immediate left of the one who faces L

1. Only I    2. Both I and II    3. All I, II and III    4. Only III    5. Both I and III

**Q9. Who among the following persons is working with K?**

1. The one who sits opposite to H    2. The one who sits immediate left of B    3. The one who sits third to the left of D    4. The one who works with L    5. The one who works with I

**Q10. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?**

1. The one who sits second to the right of A    2. The one who works with G    3. The one

who sits fourth to the right of D 4.The one who faces C 5.The one who works with J  
**Direction(11-14):- Study the following information carefully and answer the given questions.**

Twelve persons – B, D, E, H, I, M, O, Q, S, U, W, and Z live on five different floors of a five storeyed building where the lowermost floor is numbered one and the floor immediately above it is numbered two and so on.

**Note:**

**I.** Each floor has four flats viz., Flat-A, Flat-B, Flat-C and Flat-D, where Flat A is to the west of flat B, which is west of flat C, which is west of flat D. Area of each of the flats is equal.

**II.** Only one person lives in each flat.

**III.** Only twelve flats are occupied remaining flats are vacant.

**IV.** At least two and not more than three person lives on each floor.

**V.** If X lives to the west of Y, then it means person may/may not live between X and Y. If (n) number of persons live between A and B, then both A and B live on the same floor.

**VI.** Adjacent flats means flats on the same floor.

Q lives on an odd numbered floor but neither in flat B nor flat D. Z lives two floors below Q in flat D. W lives two floors above Q in the same flat. Only one person lives between S and M, who doesn't live in the same flat as Q. M lives three floors above U in the same flat. U neither lives in flat B nor flat D. S neither lives in the same flat as Q nor O. Both the flats adjacent to H are vacant. H lives to the west of I, who doesn't live in the same flat as D. E lives above B in the same flat but not in flat B. The flat which is immediately to the west of B is vacant. No one lives between W and O, who neither lives in flat B nor flat D but lives in the same flat as D.

**Q11. Who lives immediately below O in the same flat?**

1.Q 2.I 3.M 4.W 5.S

**Q12. Which of the following floor/flat maximum number of vacant flats?**

1.Same floor as M lives 2.Flat C 3.Same flat as H lives 4.Same floors as B lives 5.Flat D

**Q13. Which of the combination of persons living in the same flat?**

**I.** OWS **II.** EQB **III.** MZ

1.Only II 2.Only I and III 3.Only II and III 4.Only III 5.All I, II, and III

**Q14. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?**

1.OD 2.SI 3.QB 4.ZD 5.WQ

**Direction(16-20):-Study the following information carefully and answer the following questions.**

Ten persons - A, B, C, D, E, F, G, H, I, and J joined in a company in different years. The experience of each person is calculated from the base year 2024. No two persons have the same years of experience.

**Note: If it is given that A's experience is equal to the last two digits of the joining year of B, then the experience of A will be in any sequence. For example: If B joined in 1968, A's experience is equal to the last two digits of the joining year of B, then the experience of A may be either 68 or 86 years. The experience of all the persons is not more than 74 and not less than 14.**

The experience of B is 52 years. The experience of H and A is the last two digits of the joining year of B. Not more than three persons joined before H. As many persons joined before H as after G. The last two digits of the joining year of F is the same as the experience of G, who has two years more experience than C. The experience of D is the last two digits of the joining year of H. C has the least experience. The experience of I and C is the last two digits of the joining year of J. The sum of the experience of J and D is two more than the sum of the experience of I and E.

**Q16. Who among the following persons experience is divisible by 3?**

**I.** The one who joined two persons before A **II.** The one who joined at second last **III.** The one who joined 6 years after I

1.Both I and II 2.All I, II and III 3.Both I and III 4.Only III 5.Both II and III

**Q17. As many persons joined before \_\_\_ as between \_\_\_ and \_\_\_.**

1.A, the one who joined in 1999 and F 2.the one who joined in 2007, F and the one who joined at first 3.I, the one who joined in 1972 and D 4.The one who joined in 1979, the one who joined in 1999 and H 5.D, the one who joined in 2007 and B

**Q18. What is the average years of experience of the persons who all joined before the one who joined 10 years before G?**

1.57(1/3) 2.47(1/3) 3.67(2/3) 4.57(2/3) 5.47(2/3)

**Q19. Which of the following statement(s) is/are not true with respect to the final arrangement?**

**I.** D joined in a prime numbered year **II.** Only one person joined before G **III.** The experience of I is three times the experience is G

**IV.** As many persons joined before I as between C and E

1.Only I, III and IV 2.Only II, III and IV 3.Only II and IV 4.Only I and III 5.Only II and III

**Q20. How many persons joined in the prime numbered year?**

1.One 2.Two 3.Three 4.No one 5.More than three

**Q21. Study the following information carefully and answer the following questions If all the odd positioned letters of the following series "LIRXDRSJOVXF" are changed to the third preceding letter and all the even positioned letters are changed to the fourth preceding letter as per the alphabetical order, then arrange all the letters to form a single twelve letter meaningful word, then which of the following letter is sixth from the left end of the word. If no meaningful word is formed mark @ as your answer.**

1.E 2.N 3.F 4.U 5.@

**Direction(22-24):-Study the following information carefully and answer the given questions.**

There are four cars A, B, C, and D. These cars travel from one point to another point. Also, there are four points P, Q, R, and S connected through a common junction.

**The direction of these points with respect to the junction is as follows:**

P is 15m north direction of the junction

Q is 20m west direction of the junction

R is 25m east direction of the junction

S is 30m south direction of the junction

**Note:** While travelling from one point to another all the cars must pass through the junction.

**The following codes are given to denote the direction of movement of the cars.**

X ! Y means car Y moved straight through the junction to reach point X.

X @ Y means car Y moved to the left through the junction to reach point X.  
X # Y means car Y moved to the right through the junction to reach point X.  
X \$ Y means car X moved straight through the junction to reach point Y.  
X % Y means car X moved to the left through the junction to reach point Y.  
X & Y means car X moved to the right through the junction to reach point Y.

**Q22. If P !A, R # C, S # B and D & Q, then which of the following statements are true?**

- I.** The starting point of D and ending point of A is P  
**II.** The distance between the final positions of D and C is same as the distance between the final position of A and B  
**III.** The final position of A is to the north of the starting position of C  
**IV.** The final position of D is to the north-east of the final position of B
1. Only I, III and IV    2. Only I, II and III    3. Only I, II, III and IV    4. Only I and III  
5. Only II and III

**Q23. If C%R and S@A, then what is the shortest distance between the final position of A and C?**

1.  $5\sqrt{5}m$     2.  $3\sqrt{5}m$     3.  $5\sqrt{61}m$     4.  $5\sqrt{3}m$     5.  $5\sqrt{13}m$

**Q24. Which of the following options denotes the initial position of A is northwest of the final position of B?**

**I.** A & R, Q @ B    **II.** P # A, S @ B    **III.** S ! A, R @ B

1. Only II    2. Both I and III    3. Only I, II and III    4. Only III    5. Both II and III

**Direction(25-28):-Study the following information carefully and answer the given questions.**

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular in each step. The following is an illustration of an input and its rearrangement:

**Input: Quite 51 Later 35 Fault 27 After 71 Dozen 63**

**Step I:** AfterQuite 51 Later 35 Fault 71 Dozen 63 27

**Step II:** AfterLater Quite 51 Fault 71 Dozen 63 35 27

**Step III:** AfterLater Fault Quite 71 Dozen 63 51 35 27

**Step IV:** AfterLater Fault Dozen Quite 71 63 51 35 27

**Step V:** 450 448 360 576 536

And STEP V is the last step of the above input. As per the rules followed in the above steps, find out the appropriate steps for the given input.

**Input: Young 45 Money 53 Broad 25 Panel 49 Extra 75**

**Q25. In how many steps does the word “young” gets unchanged from its position?**

1. One    2. Three    3. Two    4. None    5. Four

**Q26. Which of the following will be the third step of the given input?**

1. Broad Panel Extra Young Money 53 49 75 45 25  
2. Broad Panel Extra Money Young 75 49 53 45 25  
3. Broad Panel Extra Young Money 53 75 49 45 25  
4. Broad Extra Panel Young Money 53 75 49 45 25  
5. Broad Extra Money Panel Young 53 49 75 45 25

**Q27. What is the sum of the numbers which are in step V?**

1. 3156    2. 3008    3. 3208    4. 2108    5. 4108

**Q28. Which of the following elements is third to the left of the element which is second from the right end of step IV?** 1. 49    2. young    3. 53    4. money    5. 75

**Q29. Study the following information carefully and answer the given questions.**

**If a seven-letter meaningful word can be formed by using the first, third, seventh, eighth, tenth, eleventh and twelfth letters from the word “STENOGRAPHIC”, then how many such pairs of letters are in the newly formed word which has as many letters between them as there are in the English alphabetical series (both forward and backward) if there is no meaningful word formed mark X as your answer?**

1. One    2. Two    3. Three    4. More than three    5. X

**Q30. Eight persons – P, Q, R, S, T, U, V, and W live on eight different floors of an eight storeyed building where the lowermost floor is numbered one, the one above that is numbered two and so on till the topmost floor is numbered eight. Only one person**

**lives on each floor. On which floor does P live?**

**Statement I:** P lives on an even numbered floor. S lives two floors above P. As many floors above S as below V. Only one person lives between V and U.

**Statement II:** Only one person lives between V and W. Three persons live between V and R. Only one person lives between R and U.

**Statement III:** Only one person lives between Q and S. As many persons live below Q as above U. T lives on an even numbered floor.

1. Only III    2. Only III and Either statement I or II    3. All three    4. Both I & II    5. Both II & III

**Q31. Eight persons – L, M, N, O, P, Q, R and S are sitting around a circular table facing the centre with equal distance between adjacent persons. What is the position of N with respect to Q?**

**Statement I:** S sits second to the right of O. Two persons sit between S and R. M sits immediate right of R. Two persons sit between M and L. Only one person sits between P and L

**Statement II:** Two persons sit between O and P. R sits immediate left of M. Three persons sit between S and M. L sits immediate left of S. O is an immediate neighbour of L.

**Statement III:** S sits opposite to M. Two persons sit between S and R. O sits third to the right of R. Two persons sit between N and Q. P sits second to the left of L.

1. If the data given in either statement I or statement II or statement III alone is sufficient to answer the question.

2. If the data given in statement III and either statement I or either statement II together are sufficient to answer the question.

3. If the data given all the three statements are necessary to answer the question.

4. If the data given all the three statements are not sufficient to answer the question.

5. If the data given in both statement II and statement III together are necessary to answer the question.

**Q32. Ten persons are sitting in two parallel rows containing five persons each in such a way that there is an equal distance between adjacent persons. In row 1: A, B, C, D and E are seated and all of them are facing south. In row 2: P, Q, R, S and T are seated and all of them are facing north. Each person in row 2 faces another person in row 1. What is the position of C with respect to E.**

**Statement I:** T sits second to the left of P. Two persons sit between A and B. B faces the one who sits immediate right of R. Q sits third to the left of R. E is an immediate neighbour of D.

**Statement II:** C sits immediate left of A. Only one person sits between A and the one

who faces R. S sits second to the left of R. Q sits immediate left of S. Only one person sits between E and B.

**Statement III:** D faces R. Two persons sit between C and D. Q faces C. P sits fourth to the right of Q. P sits fourth to the right of Q. Only one person sits between Q and T.

1. Either I or II or III    2. Only III and Either I or Either II    3. All three    4. None  
5. Both I & III

**Direction(33-36):-Study the information and answer the following questions.**

Ten persons— P, Q, R, S, T, U, V, W, X, and Y, live on twelve different floors of a twelve storey building where the lowermost floor is numbered one, the one above that is numbered two and so on till the topmost floor is numbered twelve. Only one person lives on each floor. Only one odd numbered and one even numbered floor is kept vacant. No two vacant floors are adjacent to each other. Three floors between S and V, who lives two floors above Y. Y neither lives below 4<sup>th</sup> floor nor above S. The number of floors below Y is two less than the number of floors above X. W lives immediately above R. As many floors above W as below Q, who doesn't live above W. At least two floors are there between Q and P. The number of floors below P is the same as the number of floors above U. The number of persons living between T and P is half of the number of persons living above T.

**Q33. Which of the following statement(s) is/are true with respect to the final arrangement?**

- I.** S lives immediately below the vacant floor    **II.** P lives adjacent to the vacant floor  
**III.** As many vacant floors below Y as above X  
**IV.** No floor is kept vacant above the floor in which W lives

1. Only I, III and IV    2. Only II, III and IV    3. All I, II, III and IV    4. Only II and III  
5. Only II and IV

**Q34. The number of persons living above \_\_\_ is one more than twice the number of persons living below\_\_.**

- I.** Y, V    **II.** S, T    **III.** R, Q

1. All I, II and III    2. Only II    3. Both I and II    4. Both II and III    5. Only III

**Q35. If all the persons giving rent in the multiples of hundred as per their floor number (i.e. 1<sup>st</sup> floor persons give Rs.100 rent and 2<sup>nd</sup> floor persons give Rs.200 rent and so on), then what is the average rent of the persons who are living in between the two vacant floors?**    1.500    2.600    3.550    4.650    5.660

**Q36. Which of the following statement(s) is/are true with respect to T?**

1. T lives immediately below the vacant floor    2. As many persons live below T as above S  
3. T lives on an even numbered floor    4. Only one person lives below T    5. V lives two floors above T

**Direction(37-39):-Study the information and answer the following questions.**

\* means either the hour hand or minute hand is at 1

! means either the hour hand or minute hand is at 3

# means either the hour hand or minute hand is at 4

+ means either the hour hand or minute hand is at 5

\$ means either the hour hand or minute hand is at 6

? means either the hour hand or minute hand is at 8

& means either the hour hand or minute hand is at 9

@ means either the hour hand or minute hand is at 11

**Note:** If two symbols are given in then by default the first symbol is considered as an

hour hand and the second symbol is considered as a minute hand eg: &? = 9.40. If it is given # minutes then the minute hand will be considered that is 20 minutes.

**Q37. A cricket match is scheduled to start at # \$ p.m. Due to rain the starting time is delayed by @ minutes. Then the match started and played for + minutes then again a rain break of ? minutes. Then the match started and played for \* \$ and again a rain break of & minutes. Due to heavy rain they cancelled the match, at what time the match gets cancelled? (calculate the time at p.m.)**

1. ? \*    2. ! \$    3. ? &    4. ? #    5. ? +

**Q38. A man leaving his office at + \* p.m. The travelling time from his office to home is ? minutes. But he spend @ minutes with his friends in a coffee shop and then spend & minutes purchasing a gift for his daughter and due to traffic he arrived home at ? + p.m. How much time was delayed due to the traffic?**

1. & \*    2. @ \*    3. ? \*    4. ? ?    5. ? +

**Q39. In a railway station the actual arrival time of the train is @ \* a.m. If a person arrives at the railway station \$ minutes earlier than the arrival time of the train, but the train is delayed by % minutes, then there is a delay for track clearance ? minutes and then there is a signal problem, after # minutes the train departed, then how much total time he had to wait for the departure of the train from the station?**    1. \* +    2. % @    3. # \*    4. \* #    5. \* \$

**Q40. If a child leaving his school at + # p.m. The travelling time from school to his home is % minutes. But he played for \$ minutes in the playground. After playing he went to a friend's house and spent ? minutes, then there is traffic of @ minutes. By what time did he reach home?**    1. & ?    2. ? &    3. @ \$    4. ? #    5. & !

**Q41. Each of the questions below consists of three columns and three statements are given. You have -to decide which of the following combinations are to be the statement of the following conclusion. The statements given below in column 1, column 2 can be used along with the statement given below. No statement is combined together in the same column.**

**Which of the following conclusions are true for the given statements?**

$Z > X > A \geq C \geq I = F; M \leq Q < P \leq S < F; J < E \leq N < M$

Column-1	Column-2
<b>I.</b> $Z > J, M \leq F$	<b>IV.</b> $C \geq P, Q \geq N$
<b>II.</b> $A > P, E \leq M$	<b>V.</b> $S \geq M, I > P$
<b>III.</b> $X > E, P > J$	<b>VI.</b> $J < C, I > M$

1. Only I, II and IV are true    2. Only II, III and V are true    3. Only III and VI are true  
4. All I, III, IV and VI are true    5. Only III and V are true

**Q42. Which of the following conclusions are true for the given statements?**

$M < A < B = D \leq E < F; P \geq I \geq J \geq Q = F; G \geq X = Z \geq Y \geq P$

Column-1	Column-2
<b>I.</b> $M < P, D \leq J$	<b>IV.</b> $G \geq J, P > D$
<b>II.</b> $A < G, Q \leq X$	<b>V.</b> $X > E, I > D$
<b>III.</b> $P > A, I = F$	<b>VI.</b> $G \geq A, X \geq E$

1. Only I, III and IV are true    2. Only II, III and V are true    3. Only III and VI are true  
4. All II, IV and V are true    5. Only III and V are true

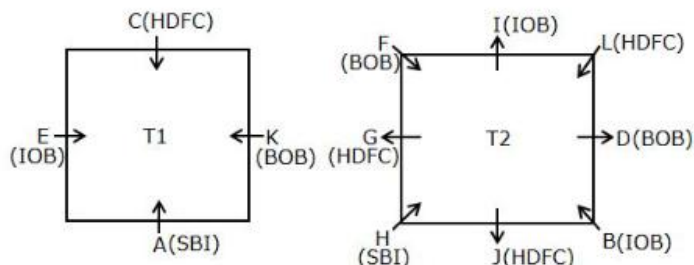
**Solution(1-5):- 3 2 5 4 4**

Final arrangement:

Days	Slot1	Slot2	Slot3
Monday	F		D
Tuesday	B	I	E
Wednesday	D		A
Thursday	G	J	F
Friday	A		C
Saturday	E	H	G
Sunday	C		B

**Solution(6-10):- 2 4 5 3 4**

Final arrangement:



**Solution(11-14):- 3 3 1 4**

Floor	A	B	C	D
5	O	Vacant	W	Vacant
4	M	Vacant	E	S
3	D	Vacant	Q	Vacant
2	Vacant	H	Vacant	I
1	U	Vacant	B	Z

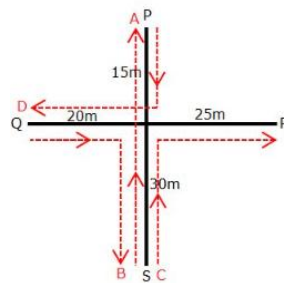
**Solution(16-20):- 3 4 4 3 5**

Final arrangement:

Year	Person
1951(73)	J
1952(72)	H
1971(53)	F
1972(52)	B
1973(51)	I
1979(45)	E
1997(27)	A
1999(25)	D
2007(17)	G
2009(15)	C

**Solution(21):- 3**

**Solution(22-24):- 2 3 4**



**Solution(25-28):- 4 3 1 5**

For Step1 to Step4:

From the input we take the place value of letters as per the alphabetical order and add them within the word

1.The **Word** which is having the least number (sum of the place values of the letters in the given words) are arranged from left to right

2.The **numbers** are arranged in ascending order from right to left

**Step V:** After Step 4, the two digit numbers are added within the number and the sum of the place values of the letters of words are taken in the same order as the previous step. After that, the first element is multiplied by the last element similarly the second element is multiplied by the second last element and so on.

**Input:** Young 45 Money 53 Broad 25 Panel 49 Extra 75

Young(82) Money(72) Broad(40) Panel(48) Extra(68)

**Step 1:** Broad Young 45 Money 53 Panel 49 Extra 75 25

**Step 2:** Broad Panel Young Money 53 49 Extra 75 45 25

**Step 3:** Broad Panel Extra Young Money 53 75 49 45 25

**Step 4:** Broad Panel Extra Money Young 75 53 49 45 25

**Step 5:** 280 432 884 576 984

**Solution(29-32):- 2 3 3 5**

**Solution(33-36):- 2 5 3 4**

Final arrangement:

Floors	Persons
12	W
11	R
10	S
9	
8	P
7	X
6	V
5	U
4	Y
3	T
2	
1	Q

**Solution(37-40):- 3 4 4 5**

**Solution(41-42):- 3 4**