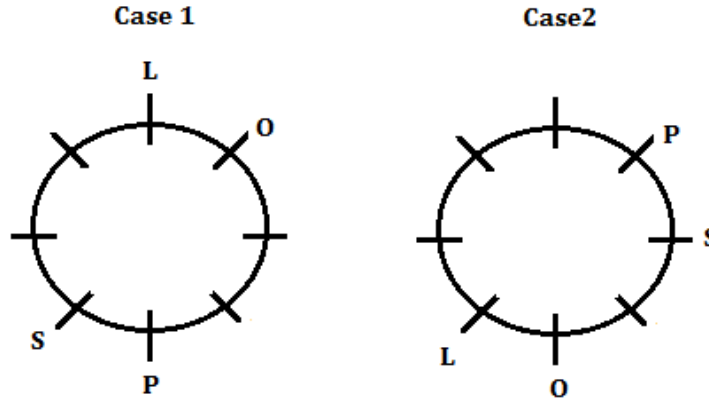


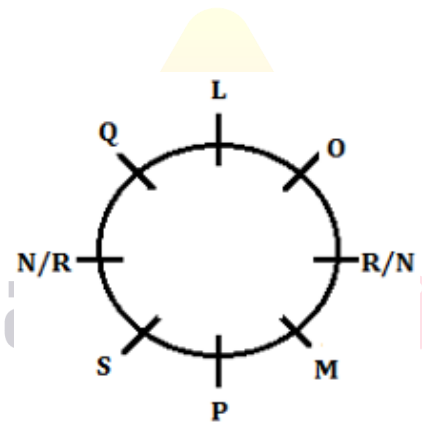
S1. Ans.(e)

Sol. From the given statements, there are two persons sit between P and O (either left or right). Here we get two possibilities i.e. Case 1 and Case 2. S sits 3rd to the right of L. Both O and L are immediate neighbors. Both P and S are immediate neighbors.



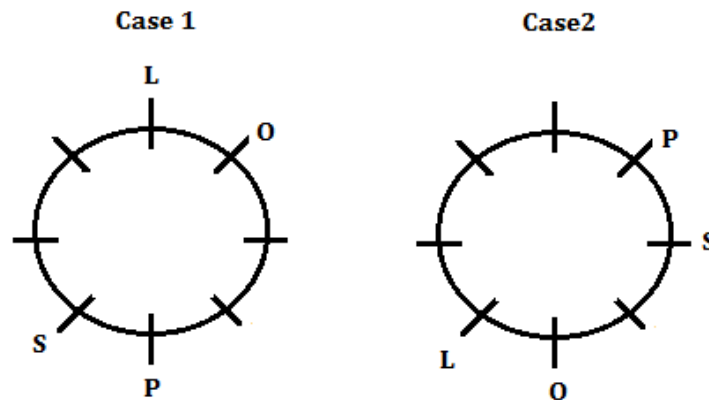
From the given statements, M sits 2nd to the right of S and faces to Q. Here Case 2 is ruled out now. Both N and R, are facing to each other.

So, the final arrangement-



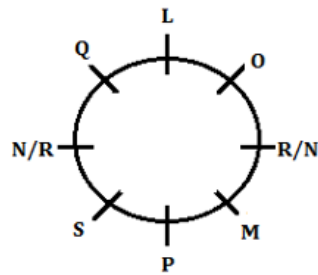
S2. Ans.(a)

Sol. From the given statements, there are two persons sit between P and O (either left or right). Here we get two possibilities i.e. Case 1 and Case 2. S sits 3rd to the right of L. Both O and L are immediate neighbors. Both P and S are immediate neighbors.



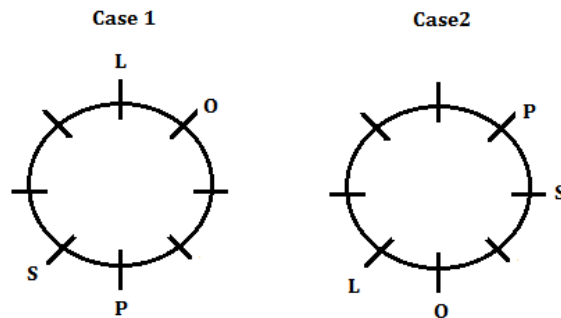
From the given statements, M sits 2nd to the right of S and faces to Q. Here Case 2 is ruled out now. Both N and R, are facing to each other.

So, the final arrangement-



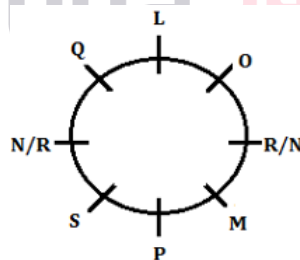
S3. Ans.(c)

Sol. From the given statements, there are two persons sit between P and O (either left or right). Here we get two possibilities i.e. Case 1 and Case 2. S sits 3rd to the right of L. Both O and L are immediate neighbors. Both P and S are immediate neighbors.



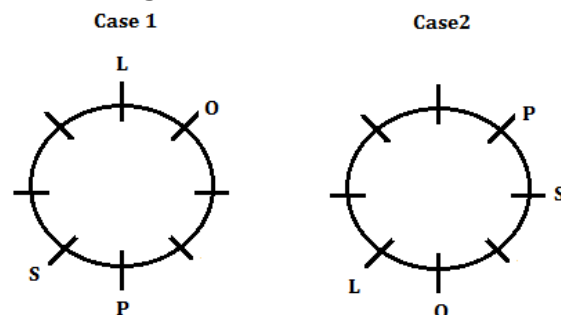
From the given statements, M sits 2nd to the right of S and faces to Q. Here Case 2 is ruled out now. Both N and R, are facing to each other.

So, the final arrangement-



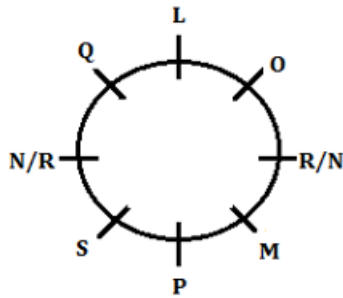
S4. Ans.(b)

Sol. From the given statements, there are two persons sit between P and O (either left or right). Here we get two possibilities i.e. Case 1 and Case 2. S sits 3rd to the right of L. Both O and L are immediate neighbors. Both P and S are immediate neighbors.



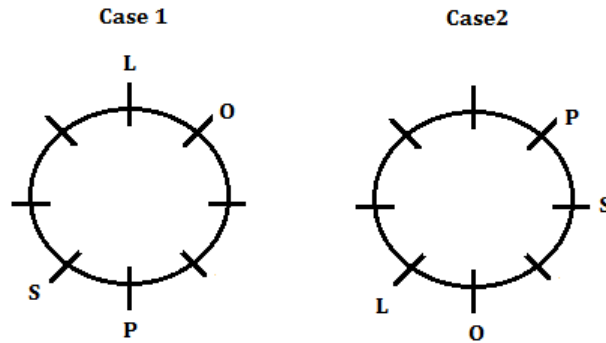
From the given statements, M sits 2nd to the right of S and faces to Q. Here Case 2 is ruled out now. Both N and R, are facing to each other.

So, the final arrangement-



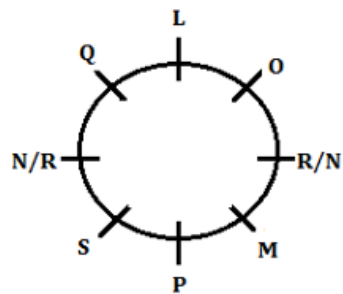
S5. Ans.(e)

Sol. From the given statements, there are two persons sit between P and O (either left or right). Here we get two possibilities i.e. Case 1 and Case 2. S sits 3rd to the right of L. Both O and L are immediate neighbors. Both P and S are immediate neighbors.



From the given statements, M sits 2nd to the right of S and faces to Q. Here Case 2 is ruled out now. Both N and R, are facing to each other.

So, the final arrangement-



S6. Ans.(c)

Sol. Two - R%3, F#5

S7. Ans.(e)

Sol. T

S8. Ans.(a)

S9. Ans.(b)

Sol. J

S10. Ans.(d)

S11. Ans.(b)

Sol. From the given statements, On Thursday Sneak a peek is playing. One game plays between Dumb *charades* and Sneak a Peek. Here we get 2 possibilities i.e. Case 1 and Case 2. What's My Name is playing on Friday. Only one day gap between when Cook-Off and Scavenger Hunt is playing. Cook-Off is playing before Scavenger Hunt.

Days	Case 1	Case 2
	Fun activity	Fun activity
Monday	Cook-Off	Cook-Off
Tuesday		Dumb charades
Wednesday	Scavenger Hunt	Scavenger Hunt
Thursday	Sneak a Peek	Sneak a Peek
Friday	What's My Name	What's My Name
Saturday	Dumb charades	

From the given statements, more than Two days gap between when Cook-Off and Office Trivia are playing. Here Case 1 is ruled out now.

So, the final arrangement is such as-

Days	Fun activity
Monday	Cook-Off
Tuesday	Dumb charades
Wednesday	Scavenger Hunt
Thursday	Sneak a Peek
Friday	What's My Name
Saturday	Office Trivia

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S12. Ans.(b)

Sol. From the given statements, On Thursday Sneak a peek is playing. One game plays between Dumb charades and Sneak a Peek. Here we get 2 possibilities i.e. Case 1 and Case 2. What's My Name is playing on Friday. Only one day gap between when Cook-Off and Scavenger Hunt is playing. Cook-Off is playing before Scavenger Hunt.

Days	Case 1	Case 2
	Fun activity	Fun activity
Monday	Cook-Off	Cook-Off
Tuesday		Dumb charades
Wednesday	Scavenger Hunt	Scavenger Hunt
Thursday	Sneak a Peek	Sneak a Peek
Friday	What's My Name	What's My Name
Saturday	Dumb charades	

From the given statements, more than Two days gap between when Cook-Off and Office Trivia are playing. Here Case 1 is ruled out now.

So, the final arrangement is such as-

Days	Fun activity
Monday	Cook-Off
Tuesday	Dumb charades
Wednesday	Scavenger Hunt
Thursday	Sneak a Peek
Friday	What's My Name
Saturday	Office Trivia

S13. Ans.(c)

Sol. From the given statements, On Thursday Sneak a peek is playing. One game plays between Dumb charades and Sneak a Peek. Here we get 2 possibilities i.e. Case 1 and Case 2. What's My Name is playing on Friday. Only one day gap between when Cook-Off and Scavenger Hunt is playing. Cook-Off is playing before Scavenger Hunt.

Days	Case 1	Case 2
	Fun activity	Fun activity
Monday	Cook-Off	Cook-Off
Tuesday		Dumb charades
Wednesday	Scavenger Hunt	Scavenger Hunt
Thursday	Sneak a Peek	Sneak a Peek
Friday	What's My Name	What's My Name
Saturday	Dumb charades	

From the given statements, more than Two days gap between when Cook-Off and Office Trivia are playing. Here Case 1 is ruled out now.

So, the final arrangement is such as-

Days	Fun activity
Monday	Cook-Off
Tuesday	Dumb charades
Wednesday	Scavenger Hunt
Thursday	Sneak a Peek
Friday	What's My Name
Saturday	Office Trivia

S14. Ans.(e)

Sol. From the given statements, On Thursday Sneak a peek is playing. One game plays between Dumb charades and Sneak a Peek. Here we get 2 possibilities i.e. Case 1 and Case 2. What's My Name is playing on Friday. Only one day gap between when Cook-Off and Scavenger Hunt is playing. Cook-Off is playing before Scavenger Hunt.

Days	Case 1	Case 2
	Fun activity	Fun activity
Monday	Cook-Off	Cook-Off
Tuesday		Dumb charades
Wednesday	Scavenger Hunt	Scavenger Hunt
Thursday	Sneak a Peek	Sneak a Peek
Friday	What's My Name	What's My Name
Saturday	Dumb charades	

From the given statements, more than Two days gap between when Cook-Off and Office Trivia are playing. Here Case 1 is ruled out now.

So, the final arrangement is such as-

Days	Fun activity
Monday	Cook-Off
Tuesday	Dumb charades
Wednesday	Scavenger Hunt
Thursday	Sneak a Peek
Friday	What's My Name
Saturday	Office Trivia

S15. Ans.(c)

Sol. From the given statements, On Thursday Sneak a peek is playing. One game plays between Dumb charades and Sneak a Peek. Here we get 2 possibilities i.e. Case 1 and Case 2. What's My Name is playing on Friday. Only one day gap between when Cook-Off and Scavenger Hunt is playing. Cook-Off is playing before Scavenger Hunt.

Days	Case 1	Case 2
	Fun activity	Fun activity
Monday	Cook-Off	Cook-Off
Tuesday		Dumb charades
Wednesday	Scavenger Hunt	Scavenger Hunt
Thursday	Sneak a Peek	Sneak a Peek
Friday	What's My Name	What's My Name
Saturday	Dumb charades	

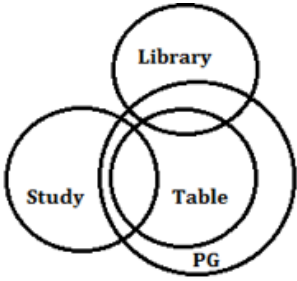
From the given statements, more than Two days gap between when Cook-Off and Office Trivia are playing. Here Case 1 is ruled out now.

So, the final arrangement is such as-

Days	Fun activity
Monday	Cook-Off
Tuesday	Dumb charades
Wednesday	Scavenger Hunt
Thursday	Sneak a Peek
Friday	What's My Name
Saturday	Office Trivia

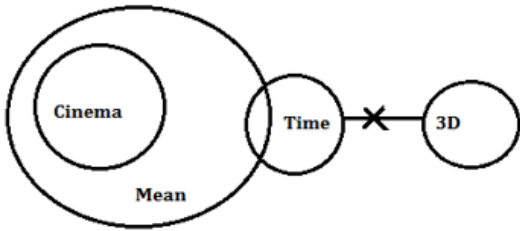
S16. Ans.(b)

Sol.



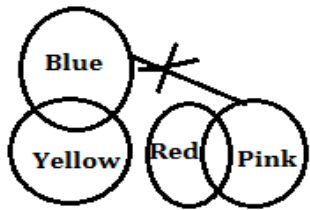
S17. Ans.(e)

Sol.



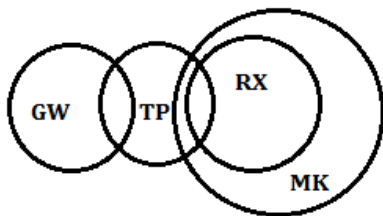
S18. Ans.(e)

Sol.



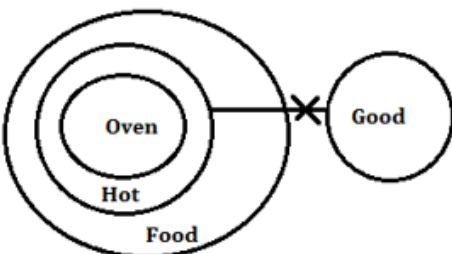
S19. Ans.(a)

Sol.



S20. Ans.(b)

Sol.



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S21. Ans.(d)

Sol.

- I. $P > T$ (false)
- II. $Q < T$ (false)

S22. Ans.(b)

Sol.

- I. $N \geq T$ (false)
- II. $R < O$ (true)

S23. Ans.(b)

Sol.

- I. $D > G$ (false)
- II. $E < H$ (true)

S24. Ans.(c)

Sol.

- I. $O \geq T$ (false)
- II. $N < T$ (false)

S25. Ans.(a)

Sol.

- I. $Z > D$ (true)
- II. $V < F$ (false)



S26. Ans.(b)

Sol. There are four floors gap between Q and R. M lives on the 4th floor. There are two persons live between M and O.

	CASE 1	CASE 2
FLOORS	PERSONS	PERSONS
7	Q/R	O
6		Q/R
5		
4	M	M
3		
2	R/Q	
1	O	R/Q

S lives just above M. There is one floor gap between S and Q. hence case 2 gets cancelled. N lives on one of the floor above P. Hence final arrangement will be,

FLOORS	PERSONS
7	Q
6	N
5	S
4	M
3	P
2	R
1	O

S27. Ans.(c)

Sol. There are four floors gap between Q and R. M lives on the 4th floor. There are two persons live between M and O.

	CASE 1	CASE 2
FLOORS	PERSONS	PERSONS
7	Q/R	O
6		Q/R
5		
4	M	M
3		
2	R/Q	
1	O	R/Q

S lives just above M. There is one floor gap between S and Q. hence case 2 gets cancelled. N lives on one of the floor above P. Hence final arrangement will be,

FLOORS	PERSONS
7	Q
6	N
5	S
4	M
3	P
2	R
1	O

S28. Ans.(e)

Sol. There are four floors gap between Q and R. M lives on the 4th floor. There are two persons live between M and O.

	CASE 1	CASE 2
FLOORS	PERSONS	PERSONS
7	Q/R	O
6		Q/R
5		
4	M	M
3		
2	R/Q	
1	O	R/Q

S lives just above M. There is one floor gap between S and Q. hence case 2 gets cancelled. N lives on one of the floor above P. Hence final arrangement will be,

FLOORS	PERSONS
7	Q
6	N
5	S
4	M
3	P
2	R
1	O

S29. Ans.(a)

Sol. There are four floors gap between Q and R. M lives on the 4th floor. There are two persons live between M and O.

	CASE 1	CASE 2
FLOORS	PERSONS	PERSONS
7	Q/R	O
6		Q/R
5		
4	M	M
3		
2	R/Q	
1	O	R/Q

S lives just above M. There is one floor gap between S and Q. hence case 2 gets cancelled. N lives on one of the floor above P. Hence final arrangement will be,

FLOORS	PERSONS
7	Q
6	N
5	S
4	M
3	P
2	R
1	O

S30. Ans.(c)

Sol. There are four floors gap between Q and R. M lives on the 4th floor. There are two persons live between M and O.

	CASE 1	CASE 2
FLOORS	PERSONS	PERSONS
7	Q/R	O
6		Q/R
5		
4	M	M
3		
2	R/Q	
1	O	R/Q

S lives just above M. There is one floor gap between S and Q. hence case 2 gets cancelled. N lives on one of the floor above P. Hence final arrangement will be,

FLOORS	PERSONS
7	Q
6	N
5	S
4	M
3	P
2	R
1	O

S31. Ans.(a)

Sol. MEAT, TEAM, MATE, META, TAME

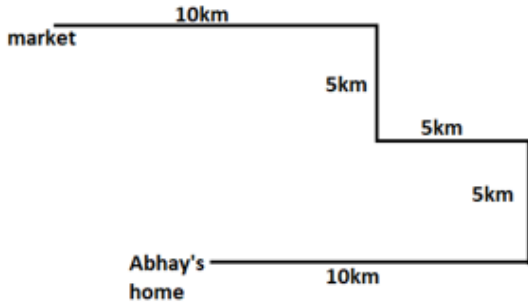
S32. Ans.(b)

Sol.

CLASSMATE

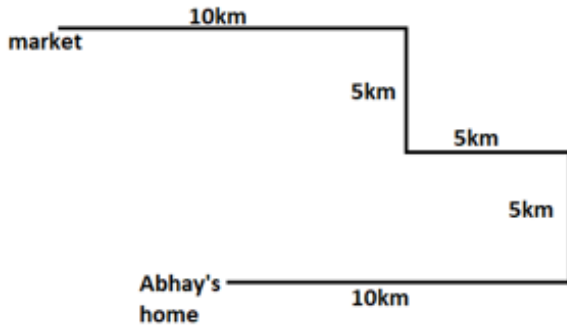
S33. Ans.(b)

Sol.



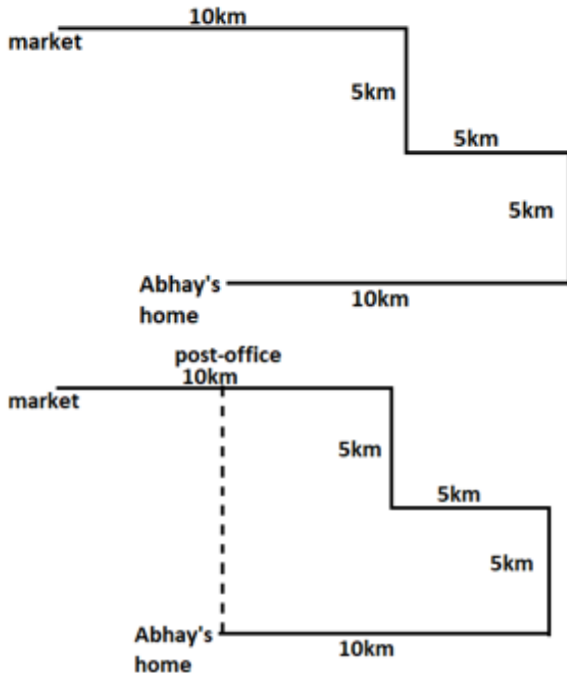
S34. Ans.(e)

Sol.



S35. Ans.(b)

Sol.



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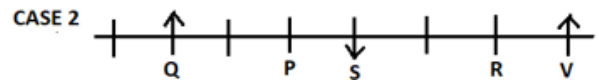
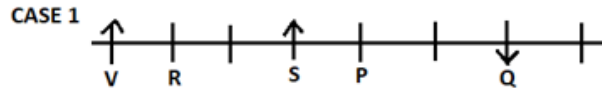
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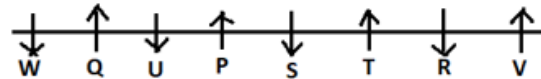
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S36. Ans.(c)

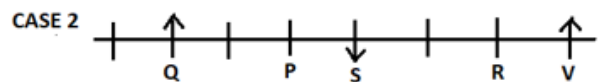
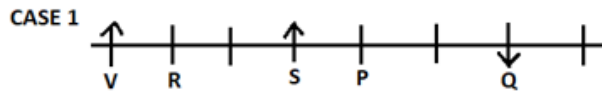
Sol. V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P, who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S.



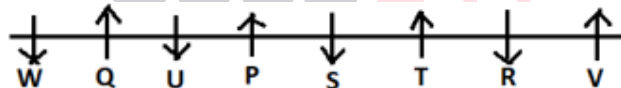
U sits 4th to the right of R. T does not sit at extreme ends. No two person sitting adjacent to each other faces the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,

**S37. Ans.(d)**

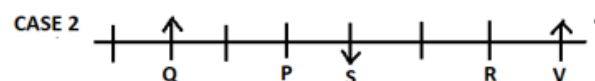
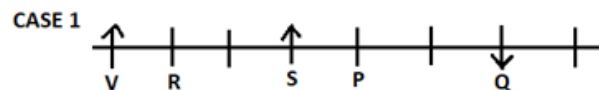
Sol. V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P, who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S.



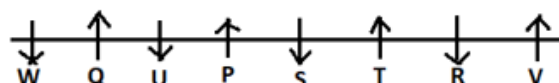
U sits 4th to the right of R. T does not sit at extreme ends. No two person sitting adjacent to each other faces the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,

**S38. Ans.(b)**

Sol. V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P, who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S.

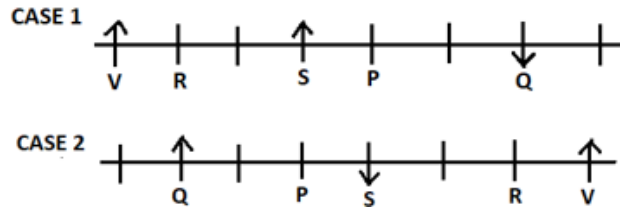


U sits 4th to the right of R. T does not sit at extreme ends. No two person sitting adjacent to each other faces the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,

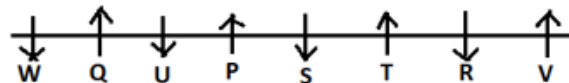


S39. Ans.(d)

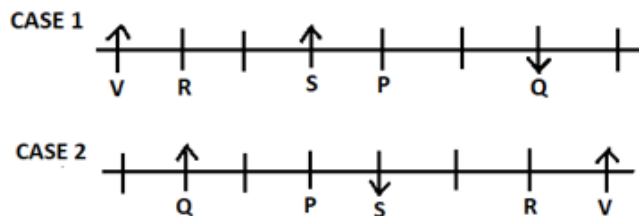
Sol. V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P, who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S.



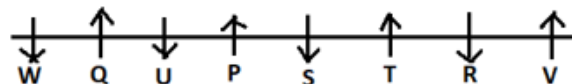
U sits 4th to the right of R. T does not sit at extreme ends. No two person sitting adjacent to each other faces the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,

**S40. Ans.(e)**

Sol. V faces to north and sits at one of the extreme ends. There are two persons sit between S and V. Q sits 3rd to the right of S. S is the immediate neighbor of P, who sits 2nd to the right of Q. R is neither an immediate neighbor of Q nor S.



U sits 4th to the right of R. T does not sit at extreme ends. No two person sitting adjacent to each other faces the same direction. Hence CASE 1 gets cancelled. Final arrangement will be,

**S41. Ans.(b)****Sol.**

$$\text{Total male voters from A} = 128 \times \frac{25}{4} = 800$$

$$\text{Total female voters from A} = 1528 - (128 + 800) = 600$$

$$\text{Total male voters from D} = 180 \times \frac{50}{9} = 1000$$

$$\text{Required percentage} = \frac{600}{1000} \times 100 = 60\%$$

S42. Ans.(d)**Sol.**

$$\text{Total male voters from B} = 64 \times \frac{75}{8} = 600$$

$$\text{Total male voters from C} = 144 \times \frac{50}{6} = 1200$$

$$\text{Required difference} = 1200 - 600 = 600$$

S43. Ans.(a)

Sol.

$$\text{Total male voters from D} = 180 \times \frac{50}{9} = 1000$$

$$\text{Total female voters from D} = 1000 \times \frac{52}{100} = 520$$

$$\text{Total male voters from B} = 64 \times \frac{75}{8} = 600$$

$$\text{Required ratio} = \frac{520}{600} = 13 : 15$$

S44. Ans.(c)

Sol.

$$\text{Total female voters from A} = 128 \times \frac{25}{4} \times \frac{60}{100} = 480$$

$$\text{Total female voters from C} = 144 \times \frac{50}{6} \times \frac{70}{100} = 840$$

$$\text{Required average} = \frac{480 + 840}{2} = 660$$

S45. Ans.(d)

Sol.

$$\text{Total male voters from A} = 128 \times \frac{25}{4} = 800$$

$$\text{Total male voters from C} = 144 \times \frac{50}{6} = 1200$$

$$\begin{aligned} \text{Required percentage} &= \frac{1200 - 800}{800} \times 100 \\ &= 50\% \end{aligned}$$

S46. Ans.(a)

Sol.

Let breadth of rectangle be 'x' cm

So, length of rectangle will be '(x + 6)' cm

And side of square will be $\frac{(7x+42)}{4}$ cm

ATQ -

$$4(2x + 6) = (7x + 42)$$

$$x = 18 \text{ cm}$$

$$\text{Length} = 24 \text{ cm}$$

$$\text{So, side of square} = 24 \times \frac{7}{4} = 42 \text{ cm}$$

$$\text{Area of square} = 42 \times 42 = 1764 \text{ cm}^2$$

S47. Ans.(b)

Sol.

ATQ -

$$\frac{1200 \times (R + 5) \times 2}{1600 \times R \times 3} = \frac{3}{4}$$

$$R = 10\%$$

$$(R + 5)\% = 10 + 5 = 15\%$$

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S48. Ans.(d)**Sol.**

Let investment of Veer be 'x' Rs,

So, investment of Ayush will be $(16000 - x)$ Rs.

ATQ -

$$\frac{(16000-x) \times 8}{(16000-x) \times 8 + x \times 12} = \frac{10}{19}$$

$$x = 6000 \text{ Rs.}$$

Investment of Ayush = 10000 Rs.

S49. Ans.(b)**Sol.**Let salary of Ayush = $50a$

$$\text{So, Salary of Veer} = 50a \times \frac{6}{5} = 60a$$

$$\text{And, salary of Aniket} = 50a \times 1.4 = 70a$$

$$30\% \text{ of salary of Veer} = 60a \times \frac{30}{100} = 18a$$

$$28\frac{4}{7}\% \text{ of salary of Aniket} = 70a \times \frac{2}{7} = 20a$$

$$\text{Required percentage} = \frac{20a - 18a}{20a} \times 100 = 10\%$$

S50. Ans.(a)**Sol.**Let efficiency of Anurag be $5a$ units/day

$$\text{So, efficiency of Veer} = 5a \times \frac{120}{100} = 6a \text{ unit/day}$$

$$\text{Efficiency of Sameer} = 6a \times \frac{2}{3} = 4a \text{ units/day}$$

$$\text{Total work} = (6a + 5a + 4a) \times 32 = 480a \text{ units}$$

$$\text{Veer \& Sameer together} = \frac{480a}{(6a+4a)} = 48 \text{ day}$$

**S51. Ans.(e)****Sol.****From I -**

$$\text{Reasoning + English} = 26 \times 2 = 52$$

From II -

$$\text{Quant + Reasoning} = 30 \times 2 = 60$$

From I & II together we can't get the answer the questions.

S52. Ans.(c)**Sol.****From I -**

Speed of bus P & Q is 75km/h and 90km/hr respectively

From I & II -

$$\text{Total distance between A \& B} = 165 \times \frac{8}{5} = 264 \text{ km}$$

Time taken by bus P to cover total distance from point A & B

$$= \frac{264}{75} = 3\frac{13}{25} \text{ hours}$$

So, From I & II together we can get the answer the questions.

S53. Ans.(d)**Sol.****From I -**

$$2\pi r + 2r = 29 \times 4$$

$$r = 14 \text{ cm}$$

We can find the area of circle from I.

From II -

$$2\pi r - 2r = 15 \times 4$$

$$r = 14 \text{ cm}$$

We can find the area of circle from II.

So, either statement **(I)** or statement **(II)** by itself is sufficient to answer the question.

S54. Ans.(a)**Sol.**

Let cost price = x

$$\text{Marked price} = \frac{100x}{70} = \frac{10x}{7}$$

$$\text{Discount \%} = d\%$$

From I -

SP of jeans = 2400 Rs.

$$x = 2400 - 300 = 2100 \text{ Rs.}$$

$$\text{MP} = 10 \times \frac{2100}{7} = 3000 \text{ Rs.}$$

$$\text{Discount} = 3000 - 2400 = 600 \text{ Rs.}$$

$$d\% = 600 \times \frac{100}{3000} = 20\%$$

From II -

Given, x = 2100 Rs.

$$\text{MP} = 10 \times \frac{2100}{7} = 3000 \text{ Rs.}$$

So, Statement **(I)** alone is sufficient to answer the question but statement **(II)** alone is not sufficient to answer the questions.

**S55. Ans.(c)****Sol.**

Let speed of boat X & Y in still water be 'x' & 'y' respectively and speed of stream be 's'.

$$\text{Downstream speed of boat X} = x + s$$

$$\text{Downstream speed of boat Y} = y + s$$

$$x - s = \frac{x}{2}$$

$$s = \frac{x}{2}$$

From I -

$$x + y = 100$$

$$x = 100 - y$$

From II -

$$40 = 2(y + s) - 2(x + s)$$

$$x = y - 20$$

$$100 - y = y - 20$$

$$y = 60 \text{ km/hr}$$

$$x = 60 - 20 = 40 \text{ km/hr}$$

$$s = \frac{40}{2} = 20 \frac{\text{km}}{\text{hr}}$$

$$\text{Upstream speed of Y} = 60 - 20 = 40 \frac{\text{km}}{\text{hr}}$$

So, From I & II together we can get the answer the questions.

S56. Ans.(d)

Sol.

$$\frac{144}{\sqrt[4]{?}} + \frac{24}{100} \times 125 = 64 - 10$$

$$\frac{144}{\sqrt[4]{?}} + 30 = 54$$

$$\sqrt[4]{?} = 6$$

$$? = 1296$$

S57. Ans.(a)

Sol.

$$\frac{?}{100} \times 250 + 64 = 216 - 2$$

$$2.5 \times ? = 150$$

$$? = 60$$

S58. Ans.(c)

Sol.

$$28 \times ? + \frac{13}{100} \times 2000 = 484$$

$$28 \times ? = 484 - 260$$

$$28 \times ? = 224$$

$$? = 8$$

S59. Ans.(b)

Sol.

$$648 + ?^4 = 961 - \frac{19}{100} \times 300$$

$$648 + ?^4 = 904$$

$$?^4 = 256$$

$$? = 4$$

S60. Ans.(a)

Sol.

$$\frac{32}{100} \times ? + 324 = \frac{76}{100} \times 500$$

$$\frac{32}{100} \times ? = 380 - 324$$

$$\frac{32}{100} \times ? = 56$$

$$? = 175$$



S61. Ans.(c)**Sol.**

Unsold bikes of company-C in 2017 & 2018 together = $[(2500-2000) + (4000-3600)]$
 $= 500 + 400$
 $= 900$

Unsold bikes of company - E in 2017 & 2018 together = $[(3000-2500) + (4000-3000)]$
 $= 500 + 1000$
 $= 1500$

Required% = $\frac{1500-900}{1500} \times 100$
 $= \frac{600}{15} \%$
 $= 40\%$

S62. Ans.(a)**Sol.**

Sold bikes of company- B & E together in 2017 = $3500 + 2500 = 6000$

Sold bikes of company - A & D together in 2018 = $6500 + 4700$
 $= 11200$

Required ratio = $\frac{6000}{11200}$
 $= 15 : 28$

S63. Ans.(e)**Sol.**

Unsold bikes of company - A & E together in 2018 = $[(8000-6500) + (4000-3000)]$
 $= 1500 + 1000$
 $= 2500$

Required % = $\frac{2500}{(6000+4000)} \times 100$
 $= \frac{2500}{10000} \times 100$
 $= 25\%$

S64. Ans.(d)**Sol.**

Average number of unsold bikes of company - A, C & E in 2017

$= \frac{1}{3}[(5000-4200) + (2500-2000) + (3000-2500)]$
 $= \frac{1}{3} [800 + 500 + 500]$
 $= 600$

Average number of sold bikes of company - B, C & E in 2018

$= \frac{1}{3} [4800 + 3600 + 3000] = 3800$

Required difference = $3800 - 600 = 3200$



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S65. Ans.(b)**Sol.**

$$\begin{aligned} \text{Required \%} &= \frac{4800+3000}{5000+7000} \times 100 \\ &= \frac{7800}{12000} \times 100 \\ &= 65\% \end{aligned}$$

S66. Ans.(b)**Sol.**

Let additional quantity of milk & water added in vessel 'Q' be $2q$ & $3q$ respectively

$$\text{Total milk in vessel 'Q'} = 36 \times \frac{7}{9} + 2q = (28 + 2q) \text{ liters}$$

$$\text{Total water in vessel 'Q'} = 36 \times \frac{2}{9} + 3q = (8 + 2q) \text{ liters}$$

ATQ -

$$\frac{(28+2q)}{(8+3q)} = \frac{20}{13}$$

$$364 + 26q = 160 + 60q$$

$$34q = 204$$

$$q = 6 \text{ liters}$$

$$\text{additional milk added} = 2 \times 6 = 12 \text{ liters}$$

**S67. Ans.(c)****Sol.**

Let four years ago age of Neeraj = $2a$

So, age of Veer = $a + 6$

ATQ -

$$(2a + 12) + (a + 18) = 84$$

$$3a = 54$$

$$a = 18 \text{ years}$$

$$\text{Age of Veer} = (18 + 10) = 28 \text{ years}$$

$$\text{Age of Neeraj} = 2 \times 18 + 4 = 40 \text{ years}$$

$$\text{Required ratio} = 28 : 40 = 7 : 10$$

S68. Ans.(c)**Sol.**

$$\frac{30a}{100} = 720 \times \frac{40}{100}$$

$$a = 960$$

$$\frac{15b}{100} = 1080 \times \frac{25}{100}$$

$$b = 1800$$

$$(960 + 1800) \times \frac{40}{100} = \frac{4c}{5}$$

$$c = 1380$$

$$20\% \text{ of } (a + c - b) = (960 + 1380 - 1800) \times \frac{20}{100} = 108$$

S69. Ans.(b)**Sol.**

Let length of train be 'L' meters

ATQ -

$$(144 + 18) \times \frac{5}{18} = \frac{L}{8}$$

$$L = 360 \text{ meters}$$

$$\text{Length of platform} = 360 + 360 \times \frac{2}{3} = 600 \text{ meters}$$

Let train takes 't' sec to cross the platform

$$144 \times \frac{5}{18} = \frac{360+600}{t}$$

$$40 t = 960$$

$$t = 24 \text{ sec}$$

S70. Ans.(b)**Sol.**

Let speed of boat in still water and speed of stream be 2a km/hr & a km/hr respectively

ATQ -

$$(2a + a) - (2a - a) = 8$$

$$2a = 8$$

$$a = 4 \text{ km/hr}$$

$$\text{Downstream speed} = (2 \times 4 + 4) = 12 \text{ km/hr}$$

$$\text{Upstream speed} = (2 \times 4 - 4) = 4 \text{ km/hr}$$

$$\text{Required time} = \frac{48}{12} + \frac{32}{4} = 12 \text{ hours}$$

**S71. Ans.(a)****Sol.**

$$\text{Required ratio} = \frac{1240 + 720}{600 + 480}$$

$$= \frac{1960}{1080}$$

$$= 49 : 27$$

S72. Ans.(c)**Sol.**

Female employees in company

$$- \text{A \& C together} = [(1240 - 640) + (880 - 480)]$$

$$= 600 + 400$$

$$= 1000$$

$$\text{Required \%} = \frac{(1000 + 600) - 1000}{(1000 + 600)} \times 100$$

$$= \frac{600}{1600} \times 100$$

$$= 37.5\%$$

S73. Ans.(d)**Sol.**

$$\begin{aligned} \text{Required \%} &= \frac{(720+880)}{(640+280+480+600)} \times 100 \\ &= \frac{1600}{2000} \times 100 \\ &= 80\% \end{aligned}$$

S74. Ans.(d)**Sol.** Female employees in company – B, D & F together

$$\begin{aligned} &= [(720-280)+(1000-600)+(480-280)] \\ &= 440+400+200 \\ &= 1040 \end{aligned}$$

Male employees in company – A, C & E together = 640 + 480 + 200 = 1320

$$\begin{aligned} \text{Required difference} &= 1320 - 1040 \\ &= 280 \end{aligned}$$

S75. Ans.(c)**Sol.**

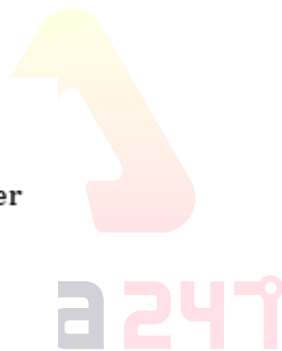
Average number of male employees in

$$\text{company – C & F} = \frac{480+280}{2} = 380$$

Female employees in company – D & E together

$$\begin{aligned} &= [(1000 - 600) + (600 - 200)] \\ &= 400 + 400 \\ &= 800 \end{aligned}$$

$$\begin{aligned} \text{Required difference} &= 800 - 380 \\ &= 420 \end{aligned}$$

**S76. Ans.(a)****Sol.**

$$\begin{aligned} \text{I. } x^2 - 11x + 30 &= 0 \\ x^2 - 6x - 5x + 30 &= 0 \\ x(x - 6) - 5(x - 6) &= 0 \\ (x - 6)(x - 5) &= 0 \\ x &= 5, 6 \end{aligned}$$

$$\begin{aligned} \text{II. } y^2 - 15y + 56 &= 0 \\ y^2 - 8y - 7y + 56 &= 0 \\ y(y - 8) - 7(y - 8) &= 0 \\ (y - 8)(y - 7) &= 0 \\ y &= 7, 8 \end{aligned}$$

So, $x < y$.

S77. Ans.(e)**Sol.**

$$\begin{aligned} \text{I. } 21x^2 + 43x + 20 &= 0 \\ 21x^2 + 28x + 15x + 20 &= 0 \\ 7x(3x + 4) + 5(3x + 4) &= 0 \\ (3x + 4)(7x + 5) &= 0 \\ x &= -\frac{4}{3}, -\frac{5}{7} \end{aligned}$$

$$\begin{aligned} \text{II. } 7y^2 + 19y + 10 &= 0 \\ 7y^2 + 14y + 5y + 10 &= 0 \\ 7y(y + 2) + 5(y + 2) &= 0 \\ (y + 2)(7y + 5) &= 0 \\ y &= -2, -\frac{5}{7} \end{aligned}$$

So, no relation.

S78. Ans.(a)**Sol.**

$$\begin{aligned} \text{I. } x^2 + 12x + 35 &= 0 \\ x^2 + 7x + 5x + 35 &= 0 \\ x(x + 7) + 5(x + 7) &= 0 \\ (x + 7)(x + 5) &= 0 \\ x &= -5, -7 \end{aligned}$$

$$\begin{aligned} \text{II. } 2y^2 + 13y + 18 &= 0 \\ 2y^2 + 9y + 4y + 18 &= 0 \\ y(2y + 9) + 2(2y + 9) &= 0 \\ (2y + 9)(y + 2) &= 0 \\ y &= -2, -\frac{9}{2} \end{aligned}$$

So, $x < y$ **S79. Ans.(d)****Sol.**

$$\begin{aligned} \text{I. } 35x^2 - 82x + 48 &= 0 \\ 35x^2 - 42x - 40x + 48 &= 0 \\ 7x(5x - 6) - 8(5x - 6) &= 0 \\ (5x - 6)(7x - 8) &= 0 \\ x &= \frac{6}{5}, \frac{8}{7} \end{aligned}$$

$$\begin{aligned} \text{II. } 28y^2 - 53y + 24 &= 0 \\ 28y^2 - 32y - 21y + 24 &= 0 \\ 4y(7y - 8) - 3(7y - 8) &= 0 \\ (7y - 8)(4y - 3) &= 0 \\ y &= \frac{8}{7}, \frac{3}{4} \end{aligned}$$

So, $x \geq y$.

S80. Ans.(e)

Sol.

I. $15x^2 - 22x + 8 = 0$

$$15x^2 - 12x - 10x + 8 = 0$$

$$3x(5x - 4) - 2(5x - 4) = 0$$

$$(5x - 4)(3x - 2) = 0$$

$$x = \frac{2}{3}, \frac{4}{5}$$

II. $20y^2 - 43y + 21 = 0$

$$20y^2 - 28y - 15y + 21 = 0$$

$$4y(5y - 7) - 3(5y - 7) = 0$$

$$(5y - 7)(4y - 3) = 0$$

$$y = \frac{3}{4}, \frac{7}{5}$$

So, no relation.

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