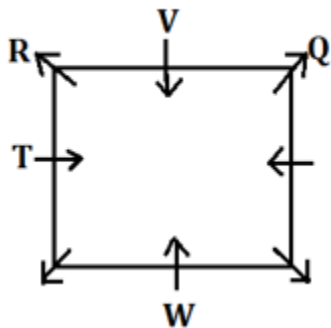


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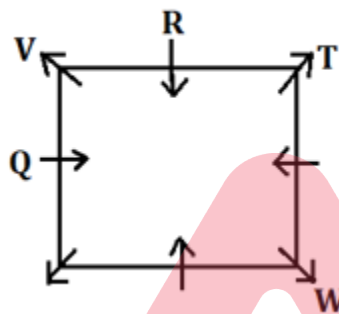
S1. Ans.(a)

Sol. R sits third to the left of W who sits opposite to V. There are two possibilities. V sits immediate left of Q. Q sits third to the left of T.

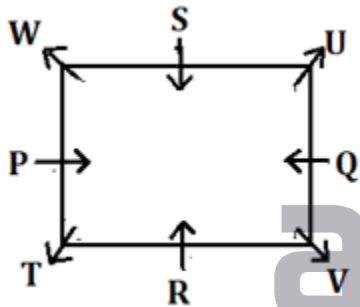
Case-1



Case-2



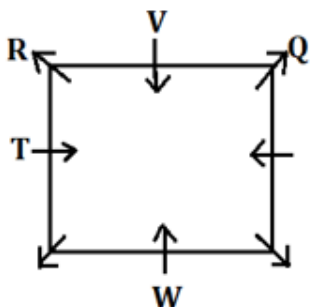
U sits immediate left of S who faces inside. U is not an immediate neighbour of W. From these conditions, case-1 will be eliminated. Q is not an immediate neighbour of P. the final arrangement is-



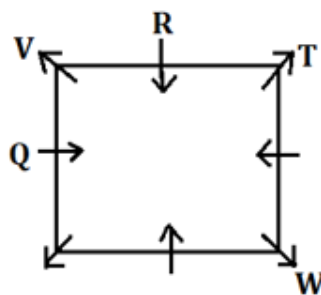
S2. Ans.(b)

Sol. R sits third to the left of W who sits opposite to V. There are two possibilities. V sits immediate left of Q. Q sits third to the left of T.

Case-1

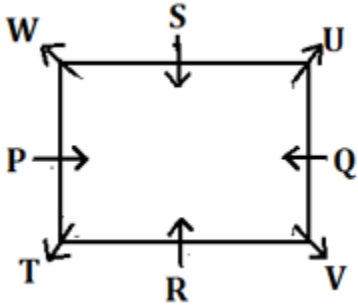


Case-2



U sits immediate left of S who faces inside. U is not an immediate neighbour of W. From these conditions, case-1 will be eliminated. Q is not an immediate neighbour of P. the final arrangement is-

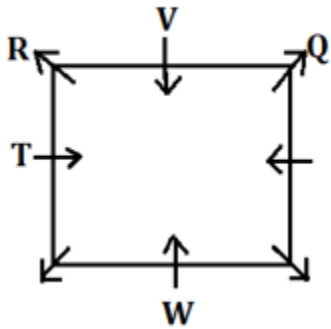




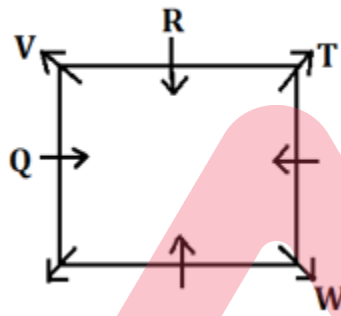
S3. Ans.(c)

Sol. R sits third to the left of W who sits opposite to V. There are two possibilities. V sits immediate left of Q. Q sits third to the left of T.

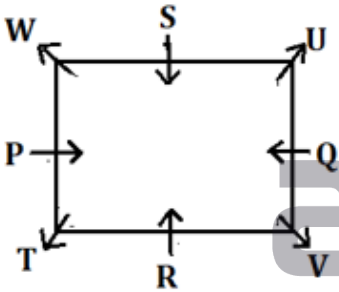
Case-1



Case-2



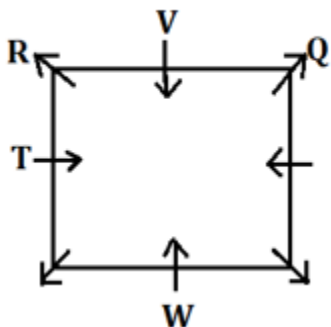
U sits immediate left of S who faces inside. U is not an immediate neighbour of W. From these conditions, case-1 will be eliminated. Q is not an immediate neighbour of P. the final arrangement is-



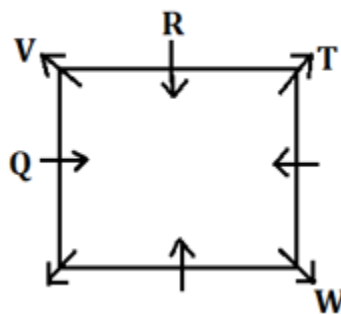
S4. Ans.(d)

Sol. R sits third to the left of W who sits opposite to V. There are two possibilities. V sits immediate left of Q. Q sits third to the left of T.

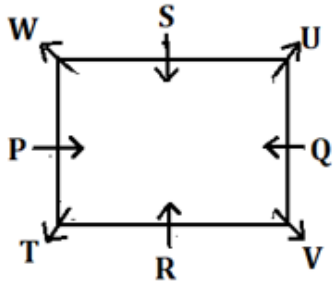
Case-1



Case-2



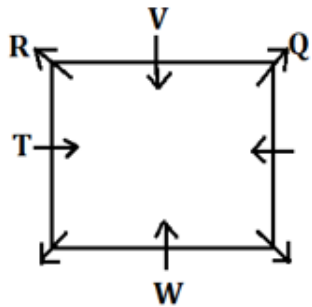
U sits immediate left of S who faces inside. U is not an immediate neighbour of W. From these conditions, case-1 will be eliminated. Q is not an immediate neighbour of P. the final arrangement is-



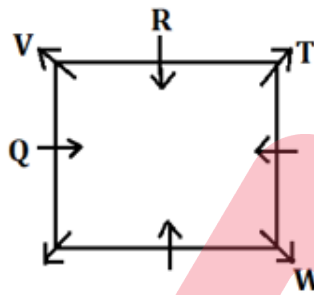
S5. Ans.(e)

Sol. R sits third to the left of W who sits opposite to V. There are two possibilities. V sits immediate left of Q. Q sits third to the left of T.

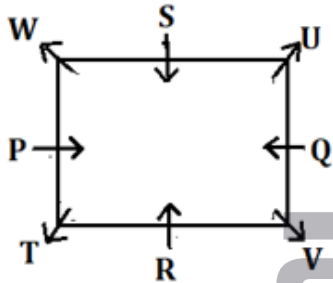
Case-1



Case-2

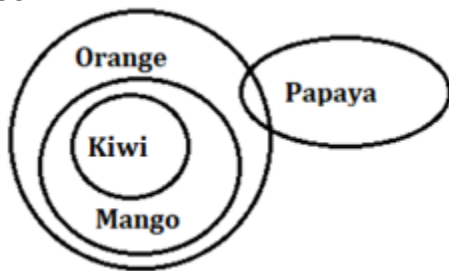


U sits immediate left of S who faces inside. U is not an immediate neighbour of W. From these conditions, case-1 will be eliminated. Q is not an immediate neighbour of P. the final arrangement is-



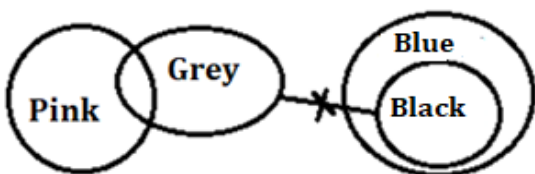
S6. Ans.(b)

Sol.



S7. Ans.(a)

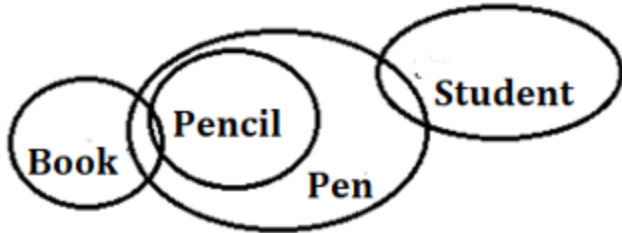
Sol.



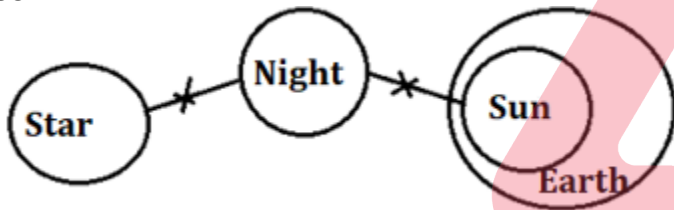
S8.Ans.(e)
Sol.



S9.Ans.(e)
Sol.



S10.Ans.(d)
Sol.

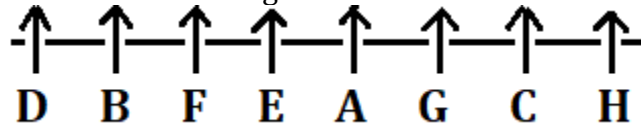


S11. Ans.(b)

Sol. A sits fourth to the right of D, one of them sitting at the extreme end of the row. There are two possibilities. Two persons sit in between A and B. E sits second to the right of B.

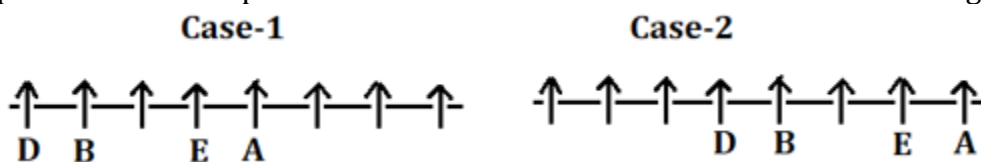


G and C are immediate neighbours of each other but none of them is an immediate neighbour of D. Two persons sit between G and F. From these conditions, case-2 will be eliminated. H sits second to the right of G. The final arrangement is-

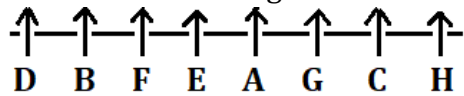


S12. Ans.(c)

Sol. A sits fourth to the right of D, one of them sitting at the extreme end of the row. There are two possibilities. Two persons sit in between A and B. E sits second to the right of B.



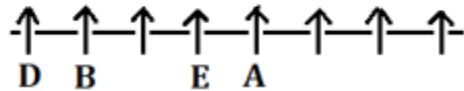
G and C are immediate neighbours of each other but none of them is an immediate neighbour of D. Two persons sit between G and F. From these conditions, case-2 will be eliminated. H sits second to the right of G. The final arrangement is-



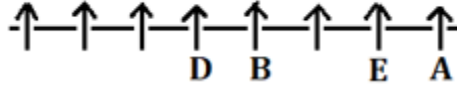
S13. Ans.(d)

Sol. A sits fourth to the right of D, one of them sitting at the extreme end of the row. There are two possibilities. Two persons sit in between A and B. E sits second to the right of B.

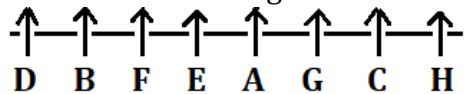
Case-1



Case-2



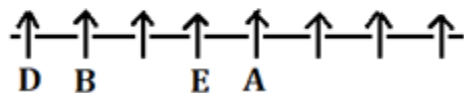
G and C are immediate neighbours of each other but none of them is an immediate neighbour of D. Two persons sit between G and F. From these conditions, case-2 will be eliminated. H sits second to the right of G. The final arrangement is-



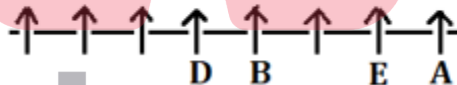
S14. Ans.(e)

Sol. A sits fourth to the right of D, one of them sitting at the extreme end of the row. There are two possibilities. Two persons sit in between A and B. E sits second to the right of B.

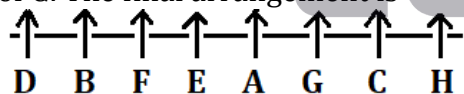
Case-1



Case-2



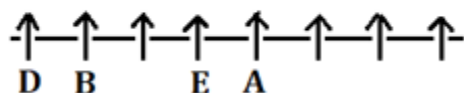
G and C are immediate neighbours of each other but none of them is an immediate neighbour of D. Two persons sit between G and F. From these conditions, case-2 will be eliminated. H sits second to the right of G. The final arrangement is-



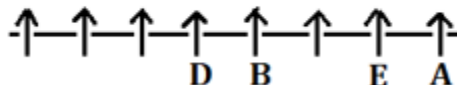
S15. Ans.(a)

Sol. A sits fourth to the right of D, one of them sitting at the extreme end of the row. There are two possibilities. Two persons sit in between A and B. E sits second to the right of B.

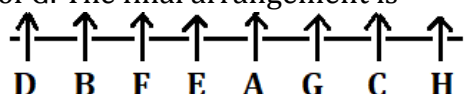
Case-1



Case-2



G and C are immediate neighbours of each other but none of them is an immediate neighbour of D. Two persons sit between G and F. From these conditions, case-2 will be eliminated. H sits second to the right of G. The final arrangement is-



S16. Ans.(d)

Sol.

- I. $Z < O$ (False)
- II. $P > M$ (False)

S17. Ans.(a)

Sol.

- I. $B > E$ (True)
- II. $J \geq K$ (False)

S18. Ans.(a)

Sol.

- I. $F < G$ (True)
- II. $H > G$ (False)

S19. Ans.(c)

Sol. Given Word- IMPLEMENTATION

After Arrangement-AEEIILMMNNOPTT

S20. Ans.(a)

Sol. Given Number- 26543178

After applied the given condition- 45486267

S21. Ans.(c)

Sol. Only three persons live below the floor on which E lives. Two persons live between the floor on which E and H live. C lives immediately above G. C lives on an odd-numbered floor. There are three possibilities.

	Case-1	Case-2	Case-3
Floors	Persons	Persons	Persons
8			
7		C	H
6		G	
5			
4	E	E	E
3	C		C
2	G		G
1	H	H	

Only one person lives between B and F. B lives one of the floors above on which F lives. D lives on an even-numbered floor but not on the 2nd floor. Form these conditions case-3 will be eliminated. More than one person live between the floor on which E and A live. From this condition, case-2 ruled out. The final arrangement is-



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

S22. Ans.(d)

Sol. Only three persons live below the floor on which E lives. Two persons live between the floor on which E and H live. C lives immediately above G. C lives on an odd-numbered floor. There are three possibilities.

	Case-1	Case-2	Case-3
Floors	Persons	Persons	Persons
8			
7		C	H
6		G	
5			
4	E	E	E
3	C		C
2	G		G
1	H	H	

Only one person lives between B and F. B lives one of the floors above on which F lives. D lives on an even-numbered floor but not on the 2nd floor. From these conditions case-3 will be eliminated. More than one person live between the floor on which E and A live. From this condition, case-2 ruled out. The final arrangement is-

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

S23. Ans.(e)

Sol. Only three persons live below the floor on which E lives. Two persons live between the floor on which E and H live. C lives immediately above G. C lives on an odd-numbered floor. There are three possibilities.

	Case-1	Case-2	Case-3
Floors	Persons	Persons	Persons
8			
7		C	H
6		G	
5			
4	E	E	E
3	C		C
2	G		G
1	H	H	

Only one person lives between B and F. B lives one of the floors above on which F lives. D lives on an even-numbered floor but not on the 2nd floor. Form these conditions case-3 will be eliminated. More than one person live between the floor on which E and A live. From this condition, case-2 ruled out. The final arrangement is-

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

S24. Ans.(a)

Sol. Only three persons live below the floor on which E lives. Two persons live between the floor on which E and H live. C lives immediately above G. C lives on an odd-numbered floor. There are three possibilities.

	Case-1	Case-2	Case-3
Floors	Persons	Persons	Persons
8			
7		C	H
6		G	
5			
4	E	E	E
3	C		C
2	G		G
1	H	H	

Only one person lives between B and F. B lives one of the floors above on which F lives. D lives on an even-numbered floor but not on the 2nd floor. Form these conditions case-3 will be eliminated. More than one person live between the floor on which E and A live. From this condition, case-2 ruled out. The final arrangement is-

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

S25. Ans.(b)

Sol. Only three persons live below the floor on which E lives. Two persons live between the floor on which E and H live. C lives immediately above G. C lives on an odd-numbered floor. There are three possibilities.

	Case-1	Case-2	Case-3
Floors	Persons	Persons	Persons
8			
7		C	H
6		G	
5			
4	E	E	E
3	C		C
2	G		G
1	H	H	

Only one person lives between B and F. B lives one of the floors above on which F lives. D lives on an even-numbered floor but not on the 2nd floor. From these conditions case-3 will be eliminated. More than one person live between the floor on which E and A live. From this condition, case-2 ruled out. The final arrangement is-

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

S26. Ans.(c)

Sol.

Word	Code
One	mj
Nation/ration	un/lk
Implement	ka
Scheme	ro
Track	sa
benefit	wl
Good	mo
People	nj

S27.Ans.(d)

Sol.

Word	Code
One	mj
Nation/ration	un/lk
Implement	ka
Scheme	ro
Track	sa
benefit	wl
Good	mo
People	nj

S28.Ans.(a)

Sol.

Word	Code
One	mj
Nation/ration	un/lk
Implement	ka
Scheme	ro
Track	sa
benefit	wl
Good	mo
People	nj

S29.Ans.(c)

Sol.

Word	Code
One	mj
Nation/ration	un/lk
Implement	ka
Scheme	ro
Track	sa
benefit	wl
Good	mo
People	nj

S30.Ans.(e)

Sol.

Word	Code
One	mj
Nation/ration	un/lk
Implement	ka
Scheme	ro
Track	sa
benefit	wl
Good	mo
People	nj



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S31. Ans.(e)

Sol.

7th to the left of 3rd from the right end= 10th from right end= G

S32. Ans.(d)

Sol.

After eliminated vowels new series is-
M N P Q B C D V W X Y Z F G H J K L R S T

S33. Ans.(d)

Sol.

4th to the right of 11th from the right= 7th from right= J

S34. Ans.(c)

Sol.

COMPLIANCE

S35. Ans.(a)

Sol.

Given number- 6594108273

After applied the given condition- 9876543210

S36. Ans.(a)

Sol. T goes in the month which has an even number of days but not in February. There are two possibilities. Two persons go between T and S. Three persons go between V and P, who goes before S. V goes after P.

	Case-1	Case-2
Months	Persons	Persons
January	P/	P
February	P/	
March		S
April	T	
May	V/	V
June	V/	T
July	S	

U goes immediate before Q. From this condition, case-2 will be eliminated. Two persons go between Q and R. The final arrangement is-

Months	Persons
January	P
February	U
March	Q
April	T
May	V
June	R
July	S

S37. Ans.(b)

Sol. T goes in the month which has an even number of days but not in February. There are two possibilities. Two persons go between T and S. Three persons go between V and P, who goes before S. V goes after P.

	Case-1	Case-2
Months	Persons	Persons
January	P/	P
February	P/	
March		S
April	T	
May	V/	V
June	V/	T
July	S	

U goes immediate before Q. From this condition, case-2 will be eliminated. Two persons go between Q and R. The final arrangement is-

Months	Persons
January	P
February	U
March	Q
April	T
May	V
June	R
July	S

S38. Ans.(c)

Sol. T goes in the month which has an even number of days but not in February. There are two possibilities. Two persons go between T and S. Three persons go between V and P, who goes before S. V goes after P.

	Case-1	Case-2
Months	Persons	Persons
January	P/	P
February	P/	
March		S
April	T	
May	V/	V
June	V/	T
July	S	

U goes immediate before Q. From this condition, case-2 will be eliminated. Two persons go between Q and R. The final arrangement is-

Months	Persons
January	P
February	U
March	Q
April	T
May	V
June	R
July	S

S39. Ans.(d)

Sol. T goes in the month which has an even number of days but not in February. There are two possibilities. Two persons go between T and S. Three persons go between V and P, who goes before S. V goes after P.

	Case-1	Case-2
Months	Persons	Persons
January	P/	P
February	P/	
March		S
April	T	
May	V/	V
June	V/	T
July	S	

U goes immediate before Q. From this condition, case-2 will be eliminated. Two persons go between Q and R. The final arrangement is-

Months	Persons
January	P
February	U
March	Q
April	T
May	V
June	R
July	S

S40. Ans.(e)

Sol. T goes in the month which has an even number of days but not in February. There are two possibilities. Two persons go between T and S. Three persons go between V and P, who goes before S. V goes after P.

	Case-1	Case-2
Months	Persons	Persons
January	P/	P
February	P/	
March		S
April	T	
May	V/	V
June	V/	T
July	S	

U goes immediate before Q. From this condition, case-2 will be eliminated. Two persons go between Q and R. The final arrangement is-

Months	Persons
January	P
February	U
March	Q
April	T
May	V
June	R
July	S

S41. Ans.(d)

Sol.

Average number of cars sold on

$$\text{Monday \& Thursday} = \frac{160+180}{2} = 170$$

Total number of bikes sold on Wednesday

$$\text{\& Friday together} = 400 + 280 = 680$$

$$\text{So, required percentage} = \frac{170}{680} \times 100 = 25\%$$

S42. Ans.(b)

Sol.

$$\begin{aligned} \text{Required ratio} &= \frac{120+300}{180+320} = \frac{420}{500} \\ &= 21 : 25 \end{aligned}$$

S43. Ans.(e)

Sol.

Total number of cars sold on Monday \&

$$\text{Friday together} = 160 + 240 = 400$$

$$\text{So, required percentage} = \frac{400-400}{400} \times 100 = 0\%$$

S44. Ans.(a)

Sol.

$$\text{Total number of bikes sold on Saturday} = 280 \times \frac{120}{100} = 336$$

$$\text{Total number bikes sold on Sunday} = 336 \times \frac{125}{100} = 420$$

S45. Ans.(d)

Sol.

$$\text{Total sold units of scooter on Tuesday} = \frac{4}{6} \times 120 = 80$$

S46. Ans.(d)

Sol.

$$x^2 + 20x + 91 = 0$$

$$x^2 + 7x + 13x + 91 = 0$$

$$x(x + 7) + 13(x + 7) = 0$$

$$x = -7, -13$$

$$\text{II. } y^2 + 12y + 35 = 0$$

$$y^2 + 7y + 5y + 35 = 0$$

$$y(y + 7) + 5(y + 7) = 0$$

$$(y + 5)(y + 7) = 0$$

$$y = -5, -7$$

$$\text{So, } y \geq x$$

S47. Ans.(e)

Sol.

I. $4x^2 - 24x + 35 = 0$

$4x^2 - 14x - 10x + 35 = 0$

$2x(2x - 7) - 5(2x - 7) = 0$

$(2x - 7)(2x - 5) = 0$

$x = \frac{7}{2}, \frac{5}{2}$

II. $9y^2 - 45y + 56 = 0$

$9y^2 - 24y - 21y + 56 = 0$

$3y(3y - 8) - 7(3y - 8) = 0$

$(3y - 8)(3y - 7) = 0$

$y = \frac{7}{3}, \frac{8}{3}$

So, no relation can be established

S48. Ans.(d)

Sol.

I. $2x^2 - 3x = x^2 + 4x - 10$

$x^2 - 7x + 10 = 0$

$x^2 - 5x - 2x + 10 = 0$

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

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

$x = 2, 5$

II. $y^3 = 125$

$y = 5$

So, $y \geq x$

S49. Ans.(a)

Sol.

From (i) and (ii)

$x = 7, y = 5$

So, $x > y$

S50. Ans.(b)

Sol.

I. $x^2 - 11x + 18 = 0$

$x^2 - 9x - 2x + 18 = 0$

$x(x - 9) - 2(x - 9) = 0$

$(x - 2)(x - 9) = 0$

$x = 2, 9$

II. $y^2 - y - 2 = 0$

$y^2 - 2y + y - 2 = 0$

$y(y - 2) + 1(y - 2) = 0$

$(y - 2)(y + 1) = 0$

$y = -1, 2$

So, $x \geq y$



S51. Ans.(d)

Sol.

$$324 - 121 + 343 = ?$$

$$? = 546$$

S52. Ans.(a)

Sol.

$$\frac{65}{100} \times 180 + 15 \times 29 = ?$$

$$117 + 435 = ?$$

$$? = 552$$

S53. Ans.(c)

Sol.

$$?^2 + 144 = 529 - 96$$

$$?^2 = 433 - 144 = 289$$

$$? = 17$$

S54. Ans.(b)

Sol.

$$? = 3 \times 15$$

$$? = 45$$

S55. Ans.(d)

Sol.

$$\frac{4096}{4096} \times 32 = ?$$

$$? = 32$$

S56. Ans.(c)

Sol.

$$(? \div 5) \div 150 = 2$$

$$\frac{?}{5} = 300$$

$$? = 1500$$

S57. Ans.(a)

Sol.

$$? = 7537 - 555$$

$$? = 6982$$

S58. Ans.(d)

Sol.

$$\frac{4}{9} \times \frac{12}{25} \times \frac{80}{100} \times ? = 192$$

$$? = 192 \times \frac{375}{64}$$

$$? = 1125$$



S59. Ans.(b)

Sol.

$$\frac{64}{25} = ?^2$$
$$? = \frac{8}{5} = 1.6$$

S60. Ans.(d)

Sol.

$$\frac{85}{7} \times \frac{49}{5} = \sqrt{?} + 121$$
$$119 - 121 = \sqrt{?}$$
$$? = 4$$

S61. Ans.(a)

Sol.

Let ages of Naveen and Manoj, 5 years ago was $5x$ and $4x$ respectively.

ATQ

$$\frac{5x+(5+9)}{4x+(5+9)} = \frac{7}{6}$$
$$x = 7$$

So, present ages of Naveen and Manoj is 40 years and 33 years respectively.

Required difference = $40 - 33 = 7$ years

S62. Ans.(c)

Sol.

Ratio of profit share of Neeraj to Prashant

$$= 7500 \times 12 : (7500 + 1000) \times 8$$
$$= 45 : 34$$

$$\text{So, required amount} = 900 \times \frac{(45+34)}{45} = 1580 \text{ Rs.}$$

S63. Ans.(b)

Sol.

Let the cost price of the article = Rs. $100x$.

$$\text{Marked price of the article} = 100x \times \frac{160}{100} = 160x \text{ Rs.}$$

$$\text{Selling price of the article} = 160x \times \frac{80}{100} = 128x \text{ Rs.}$$

$$\text{Profit} = 128x - 100x = 28x$$

$$\text{Given, } 28x = 112$$

$$\text{So, selling price of the article} = \frac{112}{28} \times 128 = \text{Rs. } 512$$

S64. Ans.(a)

Sol.

Time taken by Sanjay to complete the whole work

$$= 32 \times \frac{100}{80} = 40 \text{ days}$$

Time taken by Sanjay and Sunny together to

$$\text{complete the whole work} = 18 \times \frac{100}{75}$$

$$= 24 \text{ days}$$

Let total work be 120 units (LCM of 40 & 24)

So, efficiency of Sanjay and (Sanjay + Sunny) is

3 and 5 units/day respectively.

$$\text{Required time} = \frac{120}{5-3} = 60 \text{ days}$$

S65. Ans.(d)

Sol.

Total amount after two years from first scheme

$$= 2000 + \frac{2000 \times 20 \times 2}{100} = 2800 \text{ Rs.}$$

Interest obtained from second scheme

$$= \frac{2800 \times 25 \times 2}{100} = 1400 \text{ Rs.}$$

S66. Ans.(a)

Sol.

Let the initial radius and final radius be R and r cm respectively.

ATQ

$$\pi(R^2 - r^2) = 770$$

$$R^2 - r^2 = 245$$

$$(R + r) \times 7 = 245$$

$$(R + r) = 35$$

So, R=21 cm and r=14 cm.

$$\text{So, required \%} = \frac{7}{21} \times 100 = 33\frac{1}{3}\%$$

S67. Ans.(d)

Sol.

$$\text{Upstream speed of boat} = \frac{80}{20} = 4 \text{ kmph}$$

$$\text{Downstream speed of boat} = \frac{160}{20} = 8 \text{ kmph}$$

$$\text{So, speed of boat in still water} = \frac{8+4}{2} = 6 \text{ kmph}$$

S68. Ans.(b)

Sol.

$$\text{Quantity of water in the initial mixture} = \frac{7}{12} \times 240 = 140 \text{ litre}$$

$$\text{Quantity of milk in initial mixture} = 240 - 140 = 100 \text{ litre}$$

ATQ

$$\frac{140}{100+X} = \frac{2}{3}$$

$$X = 110$$

S69. Ans.(e)

Sol.

Let the no. are $x, x+2, x+4, x+6$ and $x+8$ respectively.

ATQ

$$x + 6 - x = 6$$

So, can't be determine

S70. Ans.(c)

Sol.

Total cases = 36

Favourable cases - 10 {(3,6), (4,5), (4,6), (5,4),

(5,5), (5,6), (6,3), (6,4), (6,5), (6,6)}

$$\text{So, required probability} = \frac{10}{36} = \frac{5}{18}$$

S71. Ans.(c)

Sol.

The pattern of the series is -

$$64 \times 6 = 384$$

$$384 \div 8 = 48$$

$$48 \times 6 = 288$$

$$288 \div 8 = 36$$

$$36 \times 6 = 216$$

$$216 \div 8 = 27$$

S72. Ans.(a)

Sol.

The pattern of the series is -

$$14 \times 1 + 1 = 15$$

$$15 \times 2 + 2 = 32$$

$$32 \times 3 + 3 = 99$$

$$99 \times 4 + 4 = 400$$

$$400 \times 5 + 5 = 2005$$

$$2005 \times 6 + 6 = 12036$$

S73. Ans.(c)

Sol.

The pattern of the series is -

$$2^2 + 1 = 5$$

$$3^2 + 1 = 10$$

$$5^2 + 1 = 26$$

$$7^2 + 1 = 50$$

$$9^2 + 1 = 82$$

$$11^2 + 1 = 122$$

$$13^2 + 1 = 170$$



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S74. Ans.(b)

Sol.

The pattern of the series is -

$$\begin{aligned}162 - 8 &= 154 \\154 - 12 &= 142 \\142 - 16 &= 126 \\126 - 20 &= 106 \\106 - 24 &= 82 \\82 - 28 &= 54\end{aligned}$$

S75. Ans.(e)

Sol.

The pattern of the series is -

$$\begin{aligned}65 - 15 &= 50 \\50 + 30 &= 80 \\80 - 45 &= 35 \\35 + 60 &= 95 \\95 - 75 &= 20 \\20 + 90 &= 110\end{aligned}$$

S76. Ans.(d)

Sol.

$$\begin{aligned}\text{Required difference} &= \frac{22.5 - 22}{100} \times 2400 \\&= 12\end{aligned}$$

S77. Ans.(b)

Sol.

$$\begin{aligned}\text{Required percentage} &= \frac{10 + 12.5}{18} \times 100 \\&= 125\%\end{aligned}$$

S78. Ans.(a)

Sol.

$$\text{Average magazine published of U and T} = \frac{18 + 22}{2} = 20\%$$

$$\text{Average magazine published of P, Q and S} = \frac{22.5 + 10 + 12.5}{3} = 15\%$$

$$\text{So, required ratio} = 20 : 15 = 4 : 3$$

S79. Ans.(b)

Sol.

$$\text{Required angle} = \frac{12.5}{100} \times 360 = 45^\circ$$

S80. Ans.(e)

Sol.

Published units of magazine R in May

$$= \frac{15}{100} \times 2400 \times \frac{140}{100} = 504$$

$$\text{So, required units} = 504 - 70 = 434$$



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