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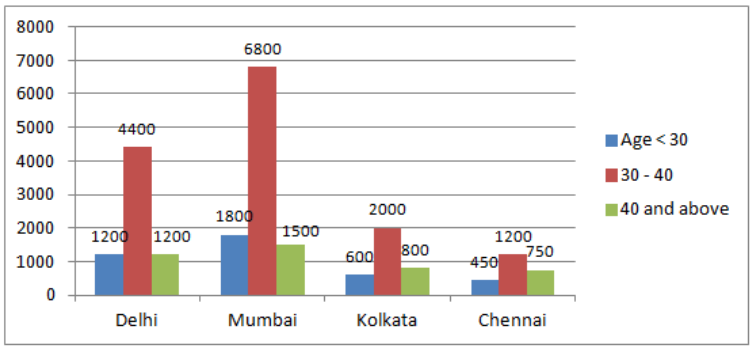
Delhi	Mumbai	Kolkata	Chennai
12,500	15,000	20,000	7,500

Further the investors were categorized as per age. Out of total 55,000 surveyed, 16% were of age below 30 years, 58% were in the age bracket 30-40 (not including exactly 40) years and remaining were of age 40 and above.

The following graph shows the number of female investors in all the three age categories in the four metros.



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4. In Kolkata, among the surveyed investors of age below 30, two third are male, while the number of male investors in the age bracket 30-40 years is thrice of that of the male investors of age 40 and above.

1) What percentage of the total number of investors surveyed in Chennai were of age 40 and above?

- 31 ✓
- 40
- 23.25
- 15.5

Video Explanation:

Explanation:

Number of investors of age below 30 years = 0.16 × 55000 = 8,800

Number of investors in the age bracket 30-40 years = 0.58 × 55000 = 31,900

Number of investors of age 40 and above = 14,300

Using point 1: For Delhi: Number of male investors of age below 30 years is 0. Total investors surveyed of the age 40 and above = 12500 × 40% = 5000; number of male investors in the category of age 40 and above = 5000 – 1200 = 3800; number of male investors in the category of age bracket 30-40 years = 12500 – 5000 – 4400 – 1200 = 1,900

Using point 2: In Mumbai, number of male investors of age below 30 years = 1,800

Using point 4: The number of female investors in the age category below 30 is (1/3) of total = 600; the number of male investors in the same age category is (2/3) of total = 2 × 600 = 1200. Let the number of male investors in the age category 40 and above be q and the age bracket 30-40 years be 3q. 4q = 20000 – 1800 – 2000 – 800; thus 4q = 15,400; thus q = 3,850 and 3q = 11,550.

Using point 3: Let the total number of investors surveyed of age 40 and above is p in Mumbai and Chennai each. Total number of investors of age 40 and above = 14,300. Using point 1, we know total number of investors of age 40 and above from Delhi = 5,000. Using point 4, we know total number of

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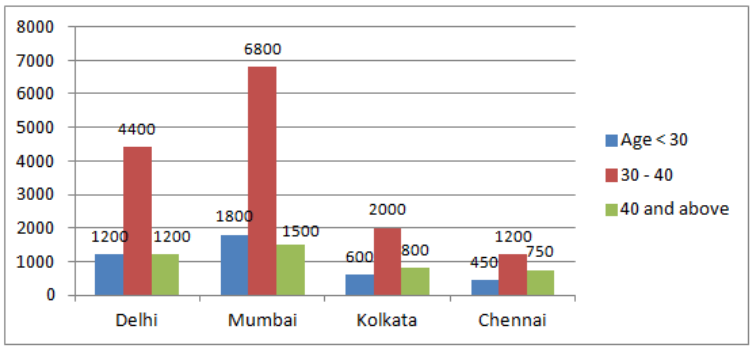

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investors of age 40 and above from Kolkata = 3850 + 800 = 4,650 Thus, now = 14300. p = 2,325

All the values can be filled in table now:

	Age < 30			30 - 40			40 and above			Total
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Delhi	0	1,200	**1,200**	1,900	4,400	**6,300**	3,800	1,200	**5,000**	**12,500**
Mumbai	1,800	1,800	**3,600**	2,275	6,800	**9,075**	825	1,500	**2,325**	**15,000**
Kolkata	1,200	600	**1,800**	11,550	2,000	**13,550**	3,850	800	**4,650**	**20,000**
Chennai	1,750	450	**2,200**	1,775	1,200	**2,975**	1,575	750	**2,325**	**7,500**
Total			**8,800**			**31,900**			**14,300**	**55,000**

The required percentage = $\frac{2325}{7500} \times 100 = 31\%$

Hence, [1].

Correct Answer:

Time taken by you: **703 secs**

Avg Time taken by all students: **605 secs**

Your Attempt: **Correct**

% Students got it correct: **65 %**

2) In Kolkata how many male investors surveyed were in the age bracket 30-40 years?

- 13,550
- 11,550 ✓
- 3,850
- 4,650

Video Explanation:

Refer to the data below and answer the questions that follow.

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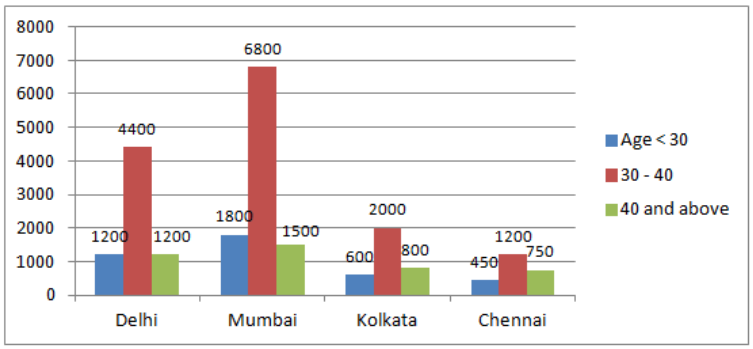

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Number of investors of age below 30 years = 0.16 × 55000 = 8,800

Number of investors in the age bracket 30-40 years = 0.58 × 55000 = 31,900

Number of investors of age 40 and above = 14,300

Using point 1: For Delhi: Number of male investors of age below 30 years is 0. Total investors surveyed of the age 40 and above = 12500 × 40% = 5000; number of male investors in the category of age 40 and above = 5000 – 1200 = 3800; number of male investors in the category of age bracket 30-40 years = 12500 – 5000 – 4400 – 1200 = 1,900

Using point 2: In Mumbai, number of male investors of age below 30 years = 1,800

Using point 4: The number of female investors in the age category below 30 is (1/3) of total = 600; the number of male investors in the same age category is (2/3) of total = 2 × 600 = 1200. Let the number of male investors in the age category 40 and above be q and the age bracket 30-40 years be 3q. 4q = 20000 – 1800 – 2000 – 800; thus 4q = 15,400; thus q = 3,850 and 3q = 11,550.

Using point 3: Let the total number of investors surveyed of age 40 and above is p in Mumbai and Chennai each. Total number of investors of age 40 and above = 14,300. Using point 1, we know total number of investors of age 40 and above from Delhi = 5,000. Using point 4, we know total number of investors of age 40 and above from Kolkata = 3850 + 800 = 4,650 Thus, now we have p + p + 5000 + 4650 = 14300. p = 2,325

All the values can be filled in table now:

	Age < 30			30 - 40			40 and above			Total
	Male	Female	**Total**	Male	Female	**Total**	Male	Female	**Total**	
Delhi	0	1,200	**1,200**	1,900	4,400	**6,300**	3,800	1,200	**5,000**	**12,500**
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Kolkata	1,200	600	**1,800**	11,550	2,000	**13,550**	3,850	800	**4,650**	**20,000**
Chennai	1,750	450	**2,200**	1,775	1,200	**2,975**	1,575	750	**2,325**	**7,500**
Total			**8,800**			**31,900**			**14,300**	**55,000**

In Kolkata , 11,550 male investors surveyed were in the age bracket 30-40 years. Hence, [2].

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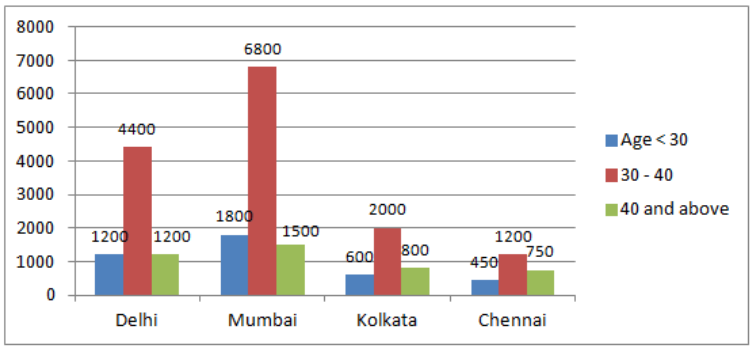

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Time taken by you: **9 secs**

Avg Time taken by all students: **234 secs**

Your Attempt: **Correct**

% Students got it correct: **86 %**

3) In Delhi how many of male investors surveyed were in the age bracket 30-40 years?

- 1,200
- 1,700
- 1,900 ✓
- 2,500

Video Explanation:

Explanation:

Number of investors of age below 30 years = 0.16 × 55000 = 8,800

Number of investors in the age bracket 30-40 years = 0.58 × 55000 = 31,900

Number of investors of age 40 and above = 14,300

Using point 1: For Delhi: Number of male investors of age below 30 years is 0. Total investors surveyed of the age 40 and above = 12500 × 40% = 5000; number of male investors in the category of age 40 and above = 5000 – 1200 = 3800; number of male investors in the category of age bracket 30-40 years = 12500 – 5000 – 4400 – 1200 = 1,900

Using point 2: In Mumbai, number of male investors of age below 30 years = 1,800

Using point 4: The number of female investors in the age category below 30 is (1/3) of total = 600; the number of male investors in the same age category is (2/3) of total = 2 × 600 = 1200. Let the number of male investors in the age category 40 and above be

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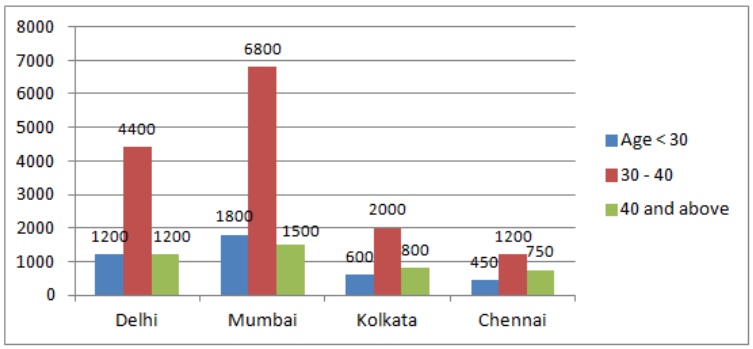

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All the values can be filled in table now:

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Total			**8,800**			**31,900**			**14,300**	**55,000**

The number of male investors surveyed in Delhi in the age bracket 30-40 years = 1,900.

Hence, [3].

Correct Answer:

Time taken by you: **76 secs**

Avg Time taken by all students: **123 secs**

Your Attempt: **Correct**

% Students got it correct: **94 %**

4) Which of the following cities had the highest number of male investors surveyed (in all age categories combined)?

- Delhi
- Mumbai
- Kolkata ✓
- Chennai

Video Explanation:

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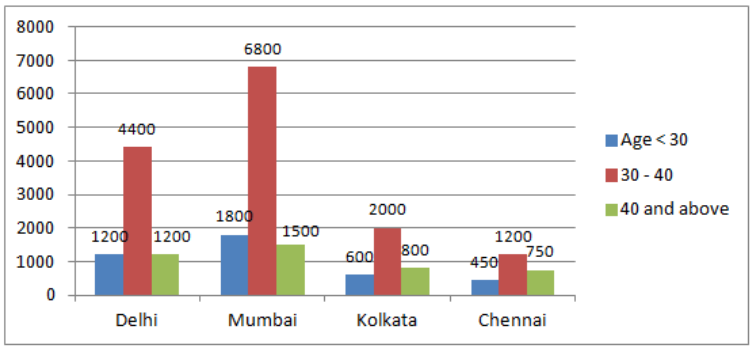

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Explanation:

Change Section here

Number of investors of age below 30 years = 0.16 × 55000 = 8,800

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	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Delhi	0	1,200	**1,200**	1,900	4,400	**6,300**	3,800	1,200	**5,000**	**12,500**
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Total			**8,800**			**31,900**			**14,300**	**55,000**

The number of male investors surveyed (in all age categories) in the four metro cities:
Delhi: 12500 – (1200 + 4400 + 1200) = 5,700
Mumbai: 15000 – (1800 + 6800 + 1500) = 4,900

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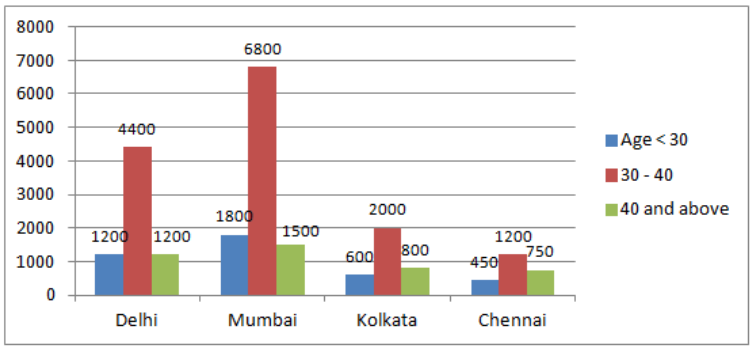

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Kolkata: 20000 – (600 + 2000 + 800) = 16,600
Chennai: 7500 – (450 +
Hence, [3].

Correct Answer:

Time taken by you: **26 secs**

Avg Time taken by all students: **94 secs**

Your Attempt: **Correct**

% Students got it correct: **95 %**

ing...

Refer to the data below and answer the questions that follow.

Election for the president of Erudite Academy takes place in two rounds. There are four candidates, named P, Q, R and S and total 100 voters. All the voters vote in both rounds of the election. In the first round, candidates P, Q, R and S get 23, 18, 39 and 20 votes respectively, while in the second round they get 37, 31, 15 and 17 votes respectively.
Following points are known about the voting behavior of the voters:
1. All voters who vote for candidate P in the first round vote for either Q or R in the second round.
2. All voters who vote for candidate Q in the first round vote for either P or R in the second round.
3. All voters who vote for candidate R in the first round vote for either Q or S in the second round.
4. All voters who vote for candidate S in the first round vote for either P or S in the second round.

1) If we define variables 'a' and 'b' as follows:
a = The number of voters who voted for P in the first round but for Q in the second round.
b = The number of voters who voted for P in the first round but for R in the second round.

What is the maximum value of |a − b|?

- 7 ✓
- 8
- 9
- 10

Video Explanation:

Explanation:

If we denote the number of voters who voted for candidate P in the first round and for candidate Q in the second round as 'p', we can fill the table as follows:

		Round 2				
		P	Q	R	S	Total
Round 1	P		p	23 − p		23
	Q	26 − p		p − 8		18
	R		31 − p		p + 8	39
	S	p + 11			9 − p	20
	Total	37	31	15	17	100

It can be seen that the number of voters who vote for Q in the first round but for R in the second round is p − 8. Therefore, p ≥ 8.
Similarly, the number of voters who vote for S in the first round as well as in the second round is 9 − p. Therefore, p ≤ 9.
Therefore, p can assume only two values: 8 or 9.
We have, a = p and b = 23 − p.
∴|a − b|=|p − (23 − p)|=|2p − 23|.
Therefore, the maximum value of |a − b|=|2p − 23|=|2 × 8 − 23| = 7
Hence, [1].

Correct Answer:

Time taken by you: **428 secs**

Avg Time taken by all students: **317 secs**

Your Attempt: **Correct**

Refer to the data below and answer the questions that follow.

Election for the president of Erudite Academy takes place in two rounds. There are four candidates, named P, Q, R and S and total 100 voters. All the voters vote in both rounds of the election. In the first round, candidates P, Q, R and S get 23, 18, 39 and 20 votes respectively, while in the second round they get 37, 31, 15 and 17 votes respectively.
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3. All voters who vote for candidate R in the first round vote for either Q or S in the second round.
4. All voters who vote for candidate S in the first round vote for either P or S in the second round.

2) If we define variables 'a' and 'b' as follows:
a = The number of voters who voted for Q in the first round but for P in the second round.
b = The number of voters who voted for Q in the first round but for R in the second round.

What is the minimum value of |a − b|?

- 13
- 14
- 15 ✗
- 16

Video Explanation:

Explanation:

If we denote the number of voters who voted for candidate P in the first round and for candidate Q in the second round as 'p', we can fill the table as follows:

		Round 2				
		P	Q	R	S	Total
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Similarly, the number of voters who vote for S in the first round as well as in the second round is 9 − p. Therefore, p ≤ 9.
Therefore, p can assume only two values: 8 or 9.
We have, a = 26 − p and b = p − 8.
∴|a − b |=|26 − p − (p − 8)|=|34 − 2p|.
Therefore, the minimum value of |a − b|=|34 − 2p| = |34 − 2 × 9| = 16

Hence, [4].

Correct Answer:

Time taken by you: **49 secs**

Avg Time taken by all students: **106 secs**

Your Attempt: **Wrong**

Change Section here

% Students got it correct: **66 %**

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4. All voters who vote for candidate S in the first round vote for either P or S in the second round.

3) If we define variables 'a' and 'b' as follows:
a = The number of voters who voted for R in the first round but for Q in the second round.
b = The number of voters who voted for R in the first round but for S in the second round.

What is the maximum value of |a − b|?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

Video Explanation:

Explanation:

If we denote the number of voters who voted for candidate P in the first round and for candidate Q in the second round as 'p', we can fill the table as follows:

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		P	Q	R	S	Total
Round 1	P		p	23 − p		23
	Q	26 − p		p − 8		18
	R		31 − p		p + 8	39
	S	p + 11			9 − p	20
	Total	37	31	15	17	100

It can be seen that the number of voters who vote for Q in the first round but for R in the second round isp − 8. Therefore, $p \geq 8$.
Similarly, the number of voters who vote for S in the first round as well as in the second round is 9 − p. Therefore, $p \leq 9$.
Therefore, p can assume only two values: 8 or 9.
We have, a = 31 − p and b = p + 8.
∴|a − b |=|31 − p − (p + 8)| = |23 − 2p|.
Therefore, the maximum value of |a − b| = |23 − 2p| = |23 − 2 × 8| = 7
Therefore, the required answer is 7.

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **36 secs**

Your Attempt: **Skipped**

Change Section here

% Students got it correct: **32 %**

Refer to the data below and answer the questions that follow.

Election for the president of Erudite Academy takes place in two rounds. There are four candidates, named P, Q, R and S and total 100 voters. All the voters vote in both rounds of the election. In the first round, candidates P, Q, R and S get 23, 18, 39 and 20 votes respectively, while in the second round they get 37, 31, 15 and 17 votes respectively.
Following points are known about the voting behavior of the voters:
1. All voters who vote for candidate P in the first round vote for either Q or R in the second round.
2. All voters who vote for candidate Q in the first round vote for either P or R in the second round.
3. All voters who vote for candidate R in the first round vote for either Q or S in the second round.
4. All voters who vote for candidate S in the first round vote for either P or S in the second round.

4) If we define variables 'a' and 'b' as follows:
a = The number of voters who voted for S in the first round but for P in the second round.
b = The number of voters who voted for S in the first round but for S in the second round.

What is the minimum value of |a – b|?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

Video Explanation:

Explanation:

If we denote the number of voters who voted for candidate P in the first round and for candidate Q in the second round as 'p', we can fill the table as follows:

		Round 2				
		P	Q	R	S	Total
Round 1	P		p	23 – p		23
	Q	26 – p		p – 8		18
	R		31 – p		p + 8	39
	S	p + 11			9 – p	20
	Total	37	31	15	17	100

It can be seen that the number of voters who vote for Q in the first round but for R in the second round isp − 8. Therefore, p ≥ 8.
Similarly, the number of voters who vote for S in the first round as well as in the second round is 9 − p. Therefore, p ≤ 9.
Therefore, p can assume only two values: 8 or 9.
We have, a = p + 11 and b = 9 − p.
∴|a − b |=|p + 11 − (9 − p)| = |2p + 2|.
Therefore, the minimum value of |a − b| = |2p + 2| = |2 × 8 + 2| = 18
Therefore, the required answer is 18.

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **24 secs**

Your Attempt: **Skipped**

Change Section here ▼

% Students got it correct: **34 %**

Refer to the data below and answer the questions that follow.

Election for the president of Erudite Academy takes place in two rounds. There are four candidates, named P, Q, R and S and total 100 voters. All the voters vote in both rounds of the election. In the first round, candidates P, Q, R and S get 23, 18, 39 and 20 votes respectively, while in the second round they get 37, 31, 15 and 17 votes respectively.
Following points are known about the voting behavior of the voters:
1. All voters who vote for candidate P in the first round vote for either Q or R in the second round.
2. All voters who vote for candidate Q in the first round vote for either P or R in the second round.
3. All voters who vote for candidate R in the first round vote for either Q or S in the second round.
4. All voters who vote for candidate S in the first round vote for either P or S in the second round.

Loading...

Refer to the data below and answer the questions that follow.

'Wake Up Cafe!' provides customer credits to their loyal customers. Customer Credits are virtual points, rewarded per cup, such that each point corresponds to one rupee. Abby, Becca, Charles, David, Ethan, Freddy, Gunther, Hannah, Ishan and Jay are some of its loyal customers. Becca, Freddy, Ethan, Hannah and Jay preferred only Tea while Abby, Charles, David, Gunther and Ishan preferred only coffee in the past. These customers had some existing customer credit balance for the number of cups they had previously ordered. The price per cup of Green Tea, Black tea, Herbal Tea, Mocha Coffee, Latte Coffee and Espresso Coffee is Rs. 30, Rs. 20, Rs. 50, Rs. 310, Rs. 290 and Rs. 230 respectively. Customer credit points per cup for Green Tea, Black Tea, Herbal Tea, Mocha Coffee, Latte Coffee and Espresso Coffee is 3, 4, 5, 30, 25 and 20 respectively.
The following table shows the number of cups previously ordered by these customers:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Hannah	11	7	6	Charles	1	2	11
Jay	10	15	2	Ishan	3	0	0
Freddy	0	20	4	Abby	11	6	1
Becca	0	1	0	Gunther	0	1	1
Ethan	5	5	5	David	0	0	2

Some of these customers have walked-in today and wish to avail the customer credit balance. After availing the customer credit on the total order, the remaining order amount is to be paid in cash. However, there are certain terms and conditions in order to avail the customer credit balance.
1. If a customer changes his/her preference from coffee to tea, then he/she can pay maximum 20% of the total order using customer credit points. If a customer changes his/her preference from tea to coffee then he/she can pay maximum 40% of the total order using customer credit points. Else, they pay maximum 30% of total order using customer credit points.
2. If a customer makes part payment for a particular order using customer credit points, no credit points are awarded for that order no matter how large the order size is.
3. If the customer's order amount is more than 4000 then they get an additional customer credit of 30% on the customer credit of that order.
4. None of the given customers had utilised their customer credit points in the past.
The walk-in customers ordered the following:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Ishan	1	0	3	Ethan	1	0	0
David	2	2	2	Abby	1	2	3
Becca	0	5	1	Hannah	0	1	0
Gunther	1	0	6	Jay	7	4	8
Freddy	4	2	0	Charles	5	8	4

*All the orders for the day were completed. Everybody avails the maximum possible customer credit in today's order except Jay and Charles, who wish to accumulate their customer credit points.

1) How much customer credit did Gunther avail?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

Video Explanation:

Explanation:

Gunther's customer credit balance = (1 × 25) + (1 × 20) = 45
Total order amount = (1 × 30) + (6 × 50) = 330
Since Gunther shifted his preference from coffee to tea, he can only avail 20% of the total order.

Gunther is allowed to avail 66 points but he only has 45 points in his customer credit balance.
Therefore, the required answer is 45.

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **224 secs**

Your Attempt: **Skipped**

% Students got it correct: **40 %**

2) How much cash did Abby pay?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

Video Explanation:

Refer to the data below and answer the questions that follow.

'Wake Up Cafe!' provides customer credits to their loyal customers. Customer Credits are virtual points, rewarded per cup, such that each point corresponds to one rupee. Abby, Becca, Charles, David, Ethan, Freddy, Gunther, Hannah, Ishan and Jay are some of its loyal customers. Becca, Freddy, Ethan, Hannah and Jay preferred only Tea while Abby, Charles, David, Gunther and Ishan preferred only coffee in the past. These customers had some existing customer credit balance for the number of cups they had previously ordered. The price per cup of Green Tea, Black tea, Herbal Tea, Mocha Coffee, Latte Coffee and Espresso Coffee is Rs. 30, Rs. 20, Rs. 50, Rs. 310, Rs. 290 and Rs. 230 respectively. Customer credit points per cup for Green Tea, Black Tea, Herbal Tea, Mocha Coffee, Latte Coffee and Espresso Coffee is 3, 4, 5, 30, 25 and 20 respectively.
The following table shows the number of cups previously ordered by these customers:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Hannah	11	7	6	Charles	1	2	11
Jay	10	15	2	Ishan	3	0	0
Freddy	0	20	4	Abby	11	6	1
Becca	0	1	0	Gunther	0	1	1
Ethan	5	5	5	David	0	0	2

Some of these customers have walked-in today and wish to avail the customer credit balance. After availing the customer credit on the total order, the remaining order amount is to be paid in cash. However, there are certain terms and conditions in order to avail the customer credit balance.
1. If a customer changes his/her preference from coffee to tea, then he/she can pay maximum 20% of the total order using customer credit points. If a customer changes his/her preference from tea to coffee then he/she can pay maximum 40% of the total order using customer credit points. Else, they pay maximum 30% of total order using customer credit points.
2. If a customer makes part payment for a particular order using customer credit points, no credit points are awarded for that order no matter how large the order size is.
3. If the customer's order amount is more than 4000 then they get an additional customer credit of 30% on the customer credit of that order.
4. None of the given customers had utilised their customer credit points in the past.
The walk-in customers ordered the following:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Ishan	1	0	3	Ethan	1	0	0
David	2	2	2	Abby	1	2	3
Becca	0	5	1	Hannah	0	1	0
Gunther	1	0	6	Jay	7	4	8
Freddy	4	2	0	Charles	5	8	4

*All the orders for the day were completed. Everybody avails the maximum possible customer credit in today's order except Jay and Charles, who wish to accumulate their customer credit points.

Explanation:

Abby's customer credit balance = (11× 30) + (6 × 25) + (1 × 20) = 500
Total order amount = (1 × 310) + (2 × 290) + (3 × 230) = 1580
Abby can avail 30% of the total order = 474
Amount paid in cash by Abby = 1580 – 474 = 1106
Therefore, the required answer is 1106.

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **53 secs**

Your Attempt: **Skipped**

% Students got it correct: **33 %**

3) What is the sum of the customer credit balance of Jay and Charles after placing their orders?

- 1020
- 1270
- 1570
- None of these

Video Explanation:

Refer to the data below and answer the questions that follow.

'Wake Up Cafe!' provides customer credits to their loyal customers. Customer Credits are virtual points, rewarded per cup, such that each point corresponds to one rupee. Abby, Becca, Charles, David, Ethan, Freddy, Gunther, Hannah, Ishan and Jay are some of its loyal customers. Becca, Freddy, Ethan, Hannah and Jay preferred only Tea while Abby, Charles, David, Gunther and Ishan preferred only coffee in the past. These customers had some existing customer credit balance for the number of cups they had previously ordered. The price per cup of Green Tea, Black tea, Herbal Tea, Mocha Coffee, Latte Coffee and Espresso Coffee is Rs. 30, Rs. 20, Rs. 50, Rs. 310, Rs. 290 and Rs. 230 respectively. Customer credit points per cup for Green Tea, Black Tea, Herbal Tea, Mocha Coffee, Latte Coffee and Espresso Coffee is 3, 4, 5, 30, 25 and 20 respectively.
The following table shows the number of cups previously ordered by these customers:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Hannah	11	7	6	Charles	1	2	11
Jay	10	15	2	Ishan	3	0	0
Freddy	0	20	4	Abby	11	6	1
Becca	0	1	0	Gunther	0	1	1
Ethan	5	5	5	David	0	0	2

Some of these customers have walked-in today and wish to avail the customer credit balance. After availing the customer credit on the total order, the remaining order amount is to be paid in cash. However, there are certain terms and conditions in order to avail the customer credit balance.
1. If a customer changes his/her preference from coffee to tea, then he/she can pay maximum 20% of the total order using customer credit points. If a customer changes his/her preference from tea to coffee then he/she can pay maximum 40% of the total order using customer credit points. Else, they pay maximum 30% of total order using customer credit points.
2. If a customer makes part payment for a particular order using customer credit points, no credit points are awarded for that order no matter how large the order size is.
3. If the customer's order amount is more than 4000 then they get an additional customer credit of 30% on the customer credit of that order.
4. None of the given customers had utilised their customer credit points in the past.
The walk-in customers ordered the following:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Ishan	1	0	3	Ethan	1	0	0
David	2	2	2	Abby	1	2	3
Becca	0	5	1	Hannah	0	1	0
Gunther	1	0	6	Jay	7	4	8
Freddy	4	2	0	Charles	5	8	4

*All the orders for the day were completed. Everybody avails the maximum possible customer credit in today's order except Jay and Charles, who wish to accumulate their customer credit points.

Explanation:

Jay's customer credit balance = (10 × 3) + (15 × 4) + (2 × 5) = 100
Jay's customer credit for current order = (7 × 30) + (4 × 25) + (8 × 20) = 470

Charles' customer credit balance = (1 × 30) + (2 × 25) + (11 × 20) = 300
Charles' customer credit for current order = (5 × 30) + (8 × 25) + (4 × 20) = 430

Jay's Total order amount = (7 × 310) + (4 × 290) + (8 × 230) = 5170
Charles' Total order amount = (5 × 310) + (8 × 290) + (4 × 230) = 4790
Since both the order amounts are more than 4000, they get additional customer credit.
Jay's additional customer credit = 30% of 470 = 141
Charles' additional customer credit = 30% of 430 = 129
Sum of the customer credit balance of Jay and Charles = 100 + 470 + 300 + 430 + 141 + 129 = 1570
Hence, [3].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **79 secs**

Your Attempt: **Skipped**

% Students got it correct: **29 %**

4) Who paid the least amount of cash?

- Freddy
- Ishan
- Gunther
- David

Video Explanation:

Refer to the data below and answer the questions that follow.

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The following table shows the number of cups previously ordered by these customers:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
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Jay	10	15	2	Ishan	3	0	0
Freddy	0	20	4	Abby	11	6	1
Becca	0	1	0	Gunther	0	1	1
Ethan	5	5	5	David	0	0	2

Some of these customers have walked-in today and wish to avail the customer credit balance. After availing the customer credit on the total order, the remaining order amount is to be paid in cash. However, there are certain terms and conditions in order to avail the customer credit balance.
1. If a customer changes his/her preference from coffee to tea, then he/she can pay maximum 20% of the total order using customer credit points. If a customer changes his/her preference from tea to coffee then he/she can pay maximum 40% of the total order using customer credit points. Else, they pay maximum 30% of total order using customer credit points.
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The walk-in customers ordered the following:

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Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
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Becca	0	5	1	Hannah	0	1	0
Gunther	1	0	6	Jay	7	4	8
Freddy	4	2	0	Charles	5	8	4

*All the orders for the day were completed. Everybody avails the maximum possible customer credit in today's order except Jay and Charles, who wish to accumulate their customer credit points.

Explanation:

It is sufficient to check the amount paid by Freddy,Ishan, Gunther and David.

The total order amounts are as follows:
Ishan = 30 + 150 = 180
David = 60 + 40 + 100 = 200
Gunther = 30 + 300 = 330
Freddy = 120 + 40 = 160

Customer Credit Balances are:
Ishan = 3 × 30 = 90
David=2 × 20 = 40
Gunther = 25 + 20 = 45
Freddy = (20 × 4) + (4 × 5) = 100

Maximum possible avail of customer credit:
Ishan = 36
David = 40
Gunther = 45
Freddy = 48

Cash Paid:

Ishan = 180 – 36 = 144
David = 200 – 40 = 160
Gunther = 330 – 45 = 285
Freddy = 160 – 48 = 112

Hence, [1].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **133 secs**

Your Attempt: **Skipped**

% Students got it correct: **63 %**

Refer to the data below and answer the questions that follow.

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The following table shows the number of cups previously ordered by these customers:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Hannah	11	7	6	Charles	1	2	11
Jay	10	15	2	Ishan	3	0	0
Freddy	0	20	4	Abby	11	6	1
Becca	0	1	0	Gunther	0	1	1
Ethan	5	5	5	David	0	0	2

Some of these customers have walked-in today and wish to avail the customer credit balance. After availing the customer credit on the total order, the remaining order amount is to be paid in cash. However, there are certain terms and conditions in order to avail the customer credit balance.
1. If a customer changes his/her preference from coffee to tea, then he/she can pay maximum 20% of the total order using customer credit points. If a customer changes his/her preference from tea to coffee then he/she can pay maximum 40% of the total order using customer credit points. Else, they pay maximum 30% of total order using customer credit points.
2. If a customer makes part payment for a particular order using customer credit points, no credit points are awarded for that order no matter how large the order size is.
3. If the customer's order amount is more than 4000 then they get an additional customer credit of 30% on the customer credit of that order.
4. None of the given customers had utilised their customer credit points in the past.
The walk-in customers ordered the following:

TEA				COFFEE			
Customer	Green	Black	Herbal	Customer	Mocha	Latte	Espresso
Ishan	1	0	3	Ethan	1	0	0
David	2	2	2	Abby	1	2	3
Becca	0	5	1	Hannah	0	1	0
Gunther	1	0	6	Jay	7	4	8
Freddy	4	2	0	Charles	5	8	4

*All the orders for the day were completed. Everybody avails the maximum possible customer credit in today's order except Jay and Charles, who wish to accumulate their customer credit points.

Refer to the data below and answer the questions that follow.

Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

A) A Car B) 7 days International trip C) 7 days Domestic trip

1. The number of promoted employees who got a car was same as those who got 7 days International trip, which is 200.
2. The number of promoted employees who got all three perks was 29.
3. All those promoted employees who got 7 days International trip also got at least one more perk.
4. Among the promoted employees who did not get a car, the ratio of the number of employees with less than 5 years' experience and the number of the employees with 5 or more years' experience was 1 : 3.
5. Among the promoted employees who have experience of 5 or more years, the ratio of number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 4 : 1 : 6.
6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

1) How many promoted employees having experience of 5 years or more got a car?

- 125
- 100
- 75
- 50

Video Explanation:

Explanation:

Number of promoted employees = 300

Number of promoted employees having less than 5 years' experience $= \frac{1}{3} \times 300 = 100$

Number of promoted employees having 5 or more years' experience = 300 − 100 = 200

From point (1), 300 − 200 = 100 promoted employees did not get car.

Therefore from point (4), among the promoted employees who did not get car, 25 employees were having less than 5 years' experience and 75 employees were with 5 or more years' experience.

The number of promoted employees having experience 5 years or more and got car = 200 − 75 = 125

Hence, [1].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **523 secs**

Your Attempt: **Skipped**

% Students got it correct: **71 %**

2) How many promoted employees who got International trip of 7 days have experience of less than 5 years?

- 64
- 91
- 119
- Cannot be determined

Refer to the data below and answer the questions that follow.

Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

A) A Car B) 7 days International trip C) 7 days Domestic trip

1. The number of promoted employees who got a car was same as those who got 7 days International trip, which is 200.
2. The number of promoted employees who got all three perks was 29.
3. All those promoted employees who got 7 days International trip also got at least one more perk.
4. Among the promoted employees who did not get a car, the ratio of the number of employees with less than 5 years' experience and the number of the employees with 5 or more years' experience was 1 : 3.
5. Among the promoted employees who have experience of 5 or more years, the ratio of number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 4 : 1 : 6.
6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

Explanation:

Number of promoted employees = 300

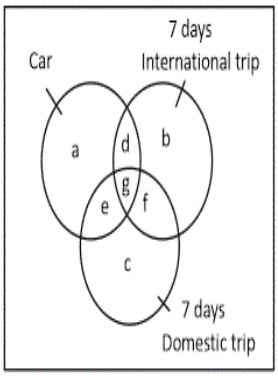
Number of promoted employees having less than 5 years' experience $= \frac{1}{3} \times 300 = 100$

Number of promoted employees having 5 or more years' experience = 300 – 100 = 200

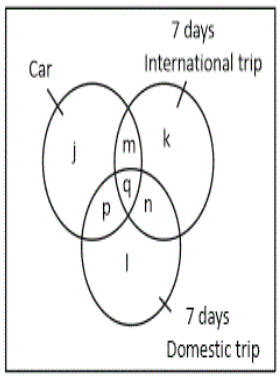
The three perks can be represented as following:

Diagram 1:

Promoted Employees with experience of 5 or more years — Total = 200



Promoted employees with experience of less than 5 years — Total = 100



Using point (3), b = 0; k = 0
Using point (1), a + d + e + g + j + m + p + q = 200
Using point (2), g + q = 29
Therefore, a + d + e + j + m + p = 171
Using points (5) and (6), a : e : d = 4 : 1 : 6 and j : p : m = 3 : 1 : 4; it can be concluded that (a + e + d) is a multiple of 11, i.e., 11y and (j + p + m) is a multiple of 8, i.e., 8z.
a + d + e + j + m + p = 171 ⇒ 11y + 8z = 171
y = 1; z = 20 it violates the statement: One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more.

Therefore, y = 9; z = 9 it is the only valid solution.
Thus, a = 36; e = 9; d = 54; j = 27; p = 9; m = 36.

Using point (1), 300 – 200 = 100 promoted employees did not get car. Therefore, c + f + l + n = 100
Now using point (4),

$$c + f = \frac{3}{4} \times 100 = 75 \text{ and } l + n = 100 - 75 = 25$$

We know, a + c + d + e + f + g = 200
a + d + e = 99; c + f = 75; Thus g = 200 – 99 – 75 = 26
Given g + q = 29; Thus q = 29 – 26 = 3
We know, the total number of promoted employees who got International trip of 7 days = 200.
d + g + f + m + q + n = 200; d = 54; g = 26; m = 36; q = 3;
Thus, f + n = 200 – 54 – 26 – 36 – 3 = 81.
We know, the promoted employees who did not get car = 100.
c + f + l + n = 100; f + n = 81; Thus, c + l = 100 – 81 = 19.

Refer to the data below and answer the questions that follow.

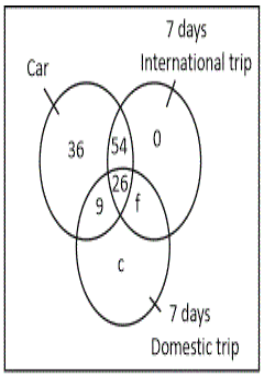
Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

A) A Car B) 7 days International trip C) 7 days Domestic trip

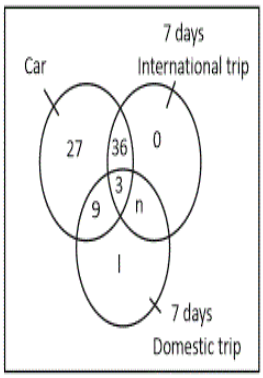
1. The number of promoted employees who got a car was same as those who got 7 days International trip, which is 200.
2. The number of promoted employees who got all three perks was 29.
3. All those promoted employees who got 7 days International trip also got at least one more perk.
4. Among the promoted employees who did not get a car, the ratio of the number of employees with less than 5 years' experience and the number of the employees with 5 or more years' experience was 1 : 3.
5. Among the promoted employees who have experience of 5 or more years, the ratio of number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 4 : 1 : 6.
6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

Diagram 2:

Promoted of employees with experience of 5 or more years



Promoted of employees with experience of less than 5 years



The value of 'n' cannot be determined.
Hence, [4].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **113 secs**

Your Attempt: **Skipped**

% Students got it correct: **72 %**

3) How many of all the promoted employees got the perk of Domestic trip of 7 days only?

- 10
- 15
- 19
- Cannot be determined

Video Explanation:

Explanation:

Refer to the data below and answer the questions that follow.

Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

A) A Car B) 7 days International trip C) 7 days Domestic trip

1. The number of promoted employees who got a car was same as those who got 7 days International trip, which is 200.
2. The number of promoted employees who got all three perks was 29.
3. All those promoted employees who got 7 days International trip also got at least one more perk.
4. Among the promoted employees who did not get a car, the ratio of the number of employees with less than 5 years' experience and the number of the employees with 5 or more years' experience was 1 : 3.
5. Among the promoted employees who have experience of 5 or more years, the ratio of number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 4 : 1 : 6.
6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

Number of promoted employees = 300

Number of promoted employees having less than 5 years' experience = $\frac{1}{3} \times 300 = 100$

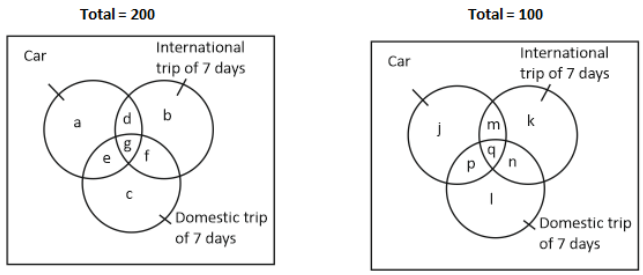
Number of promoted employees having 5 or more years' experience = 300 – 100 = 200

The three perks can be represented as following:

Diagram 1:

Promoted Employees with experience of 5 or more years

Promoted employees with experience of less than 5 years



Using point (3), b = 0; k = 0
Using point (1), a + d + e + g + j + m + p + q = 200
Using point (2), g + q = 29
Therefore, a + d + e + j + m + p = 171
Using points (5) and (6), a : e : d = 4 : 1 : 6 and j : p : m = 3 : 1 : 4; it can be concluded that (a + e + d) is a multiple of 11, i.e., 11y and (j + p + m) is a multiple of 8, i.e., 8z.
a + d + e + j + m + p = 171 ⇒ 11y + 8z = 171
y = 1; z = 20 it violates the statement: One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more.

Therefore, y = 9; z = 9 it is the only valid solution.
Thus, a = 36; e = 9; d = 54; j = 27; p = 9; m = 36.

Using point (1), 300 – 200 = 100 promoted employees did not get car. Therefore, c + f + l + n = 100
Now using point (4),

$$c + f = \frac{3}{4} \times 100 = 75 \text{ and } l + n = 100 - 75 = 25$$

We know, a + c + d + e + f + g = 200
a + d + e = 99; c + f = 75; Thus g = 200 – 99 – 75 = 26
Given g + q = 29; Thus q = 29 – 26 = 3
We know, the total number of promoted employees who got International trip of 7 days = 200.
d + g + f + m + q + n = 200; d = 54; g = 26; m = 36; q = 3;
Thus, f + n = 200 – 54 – 26 – 36 – 3 = 81.
We know, the promoted employees who did not get Car = 100.

Refer to the data below and answer the questions that follow.

Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

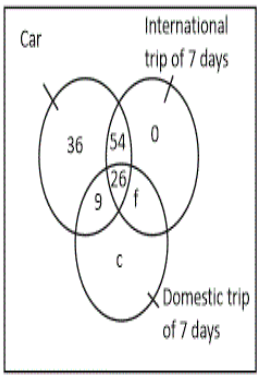
A) A Car B) 7 days International trip C) 7 days Domestic trip

1. The number of promoted employees who got a car was same as those who got 7 days International trip, which is 200.
2. The number of promoted employees who got all three perks was 29.
3. All those promoted employees who got 7 days International trip also got at least one more perk.
4. Among the promoted employees who did not get a car, the ratio of the number of employees with less than 5 years' experience and the number of the employees with 5 or more years' experience was 1 : 3.
5. Among the promoted employees who have experience of 5 or more years, the ratio of number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 4 : 1 : 6.
6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

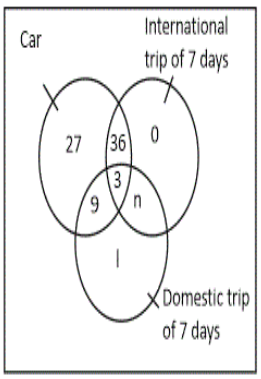
c + f + l + n = 100; f + n = 81; Thus, c + l = 100 − 81 = 19

Diagram:

Promoted of employees with experience of 5 or more years



Promoted of employees with experience of less than 5 years



c + l = 19
Hence, [3].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **69 secs**

Your Attempt: **Skipped**

% Students got it correct: **62 %**

4) What is the difference between the number of promoted employees having 5 or more years' experience who got the perk of Domestic trip of 7 days only and the number of promoted employees having less than 5 years' experience who got the perk of both International trip of 7 days and Domestic trip of 7 days only?

- 6
- 8
- 10
- Cannot be determined

Video Explanation:

Explanation:

Refer to the data below and answer the questions that follow.

Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

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6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

Number of promoted employees = 300

Number of promoted employees having less than 5 years' experience = $\frac{1}{3} \times 300 = 100$

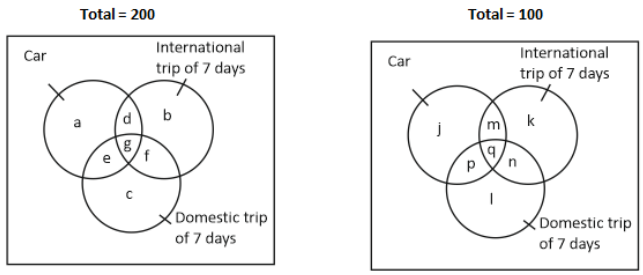
Number of promoted employees having 5 or more years' experience = 300 – 100 = 200

The three perks can be represented as following:

Diagram 1:

Promoted Employees with experience of 5 or more years

Promoted employees with experience of less than 5 years



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Using point (1), a + d + e + g + j + m + p + q = 200
Using point (2), g + q = 29
Therefore, a + d + e + j + m + p = 171
Using points (5) and (6), a : e : d = 4 : 1 : 6 and j : p : m = 3 : 1 : 4; it can be concluded that (a + e + d) is a multiple of 11, i.e., 11y and (j + p + m) is a multiple of 8, i.e., 8z.
a + d + e + j + m + p = 171 ⇒ 11y + 8z = 171
y = 1; z = 20 it violates the statement: One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more.

Therefore, y = 9; z = 9 it is the only valid solution.
Thus, a = 36; e = 9; d = 54; j = 27; p = 9; m = 36.

Using point (1), 300 – 200 = 100 promoted employees did not get car. Therefore, c + f + l + n = 100
Now using point (4),

$$c + f = \frac{3}{4} \times 100 = 75 \text{ and } l + n = 100 - 75 = 25$$

We know, a + c + d + e + f + g = 200
a + d + e = 99; c + f = 75; Thus g = 200 – 99 – 75 = 26
Given g + q = 29; Thus q = 29 – 26 = 3
We know, the total number of promoted employees who got International trip of 7 days = 200.
d + g + f + m + q + n = 200; d = 54; g = 26; m = 36; q = 3;
Thus, f + n = 200 – 54 – 26 – 36 – 3 = 81.
We know, the promoted employees who did not get Car = 100.
c + f + l + n = 100; f + n = 81; Thus, c + l = 100 – 81 = 19.

Refer to the data below and answer the questions that follow.

Out of 500 employees of XYZ Private Limited Mumbai, 300 employees are promoted in the year 2019. One third of the promoted employees have less than 5 years' experience, while the rest have the experience of 5 years or more. All the promoted employees got at least one of the following three perks:

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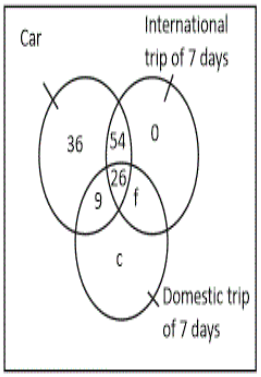
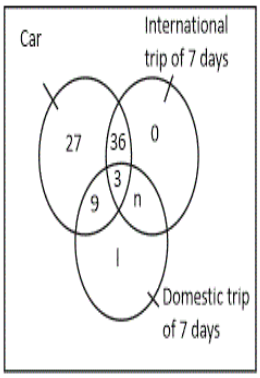
5. Among the promoted employees who have experience of 5 or more years, the ratio of number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 4 : 1 : 6.
6. Among the promoted employees who have experience of less than 5 years, the ratio of the number of employees who got only car, both car & 7 days Domestic trip (but not 7 days International trip) and both car & 7 days International trip (but not 7 days Domestic trip) is 3 : 1 : 4.

Diagram 2:

Promoted of employees with experience of 5 or more years



Promoted of employees with experience of less than 5 years



We need to find the value of $|c - n|$.
We know,
$c + l = 19$ … (i)
$l + n = 25$ … (ii)
Therefore, $|c - n| = 6$
Hence, [1].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **31 secs**

Your Attempt: **Skipped**

% Students got it correct: **29 %**

Loading...

Refer to the data below and answer the questions that follow.

The Mumbai Film Festival was held in the month of February 2019, in which 20 movies of 3 genres: Suspense, Horror and Comedy were screened from Monday to Friday each week. Exactly one movie was screened on a day. No movie was screened on Saturday and Sunday. It is known that 1st February, 2019 was a Monday.

1. In the first week, exactly three suspense movies were screened.

2. In the first two weeks, horror movie was screened only on 8th February.

3. 9th Februaryand 10th February were the only two days in the month where the same genre movies were screened consecutively. Other than these two days, each genre screening was followed by a different genre movie screening. For example, movies shown on 12th February (Friday)and 15th February (Monday) were of different genres.

4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

1) What is the best that can be said about the number of comedy movies screened in the month of February during the Mumbai Film Festival?

- More than 4
- At least 8 ✗
- Exactly 8
- Atmost 9

Video Explanation:

Explanation:

Let movies of genres suspense, comedy and horror be denoted by S, C and H respectively.
Using point 1 and point 2, first six screenings (i.e., on 1st to 5th February and 8th February) were following in the given order: S, C, S, C,S, H.
Now, using point 3, it can be concluded that movies of same genre were shown on 9th February, 10th February and 12th February. These three genres were either suspense or comedy.
Using point 4, in the last five days (i.e., in the fourth week), either 2 or 3 horror movies and accordingly either 3 or 2 comedy movies were screened. Thus, at least 1 comedy movie was shown in the second week and at least 2 comedy movies were shown in the fourth week. Number of comedy movies shown has to be more than 5 (i.e., 2(first week) + at least 1 (second week) + at least 2 (fourth week)). Therefore; using condition 5; not more than 5 horror movies were screened. So either 3 or 4 or 5 horror movies were screened in the month. If 3 horror movies were screened in the month, then 6 suspense movies were screened and remaining 11 movies were comedy. Therefore, 11 comedy movies means 2 comedy movies in the first week and 3 comedy movies in each of the remaining weeks. But then it will contradict point 3.
If 5 horror movies were screened in the month, then 10 suspense movies and 5 comedy movies were screened. On 9th, 10th and 12th February, suspense movies were screened. Now screening of remaining 4 suspense movies in 5 days (from 15th February to 19th February) is not possible.
Therefore, 4 horror movies, 8 suspense movies and 8 comedy movies were screened in the month.
Hence, [3].

Correct Answer:

Time taken by you: **748 secs**

Change Section here

Avg Time taken by all students: **334 secs**

Your Attempt: **Wrong**

% Students got it correct: **44 %**

Refer to the data below and answer the questions that follow.

The Mumbai Film Festival was held in the month of February 2019, in which 20 movies of 3 genres: Suspense, Horror and Comedy were screened from Monday to Friday each week. Exactly one movie was screened on a day. No movie was screened on Saturday and Sunday. It is known that 1st February, 2019 was a Monday.

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3. 9th Februaryand 10th February were the only two days in the month where the same genre movies were screened consecutively. Other than these two days, each genre screening was followed by a different genre movie screening. For example, movies shown on 12th February (Friday)and 15th February (Monday) were of different genres.

4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

2) If suspense movie was screened on 16th **February, then in how many ways movies could be screened in the month of February?**

- 3
- 4 ✓
- 5
- 6

Video Explanation:

Explanation:

Let movies of genres suspense, comedy and horror be denoted by S, C and H respectively.
Using point 1 and point 2, first six screenings (i.e., on 1st to 5th February and 8th February) were following in the given order: S, C, S, C, S, H.
Now, using point 3, it can be concluded that movies of same genre were shown on 9th February, 10th February and 12th February. These three genres were either suspense or comedy.
Using point 4, in the last five days (i.e., in the fourth week), either 2 or 3 horror movies and accordingly either 3 or 2 comedy movies were screened. Thus, at least 1 comedy movie was shown in the second week and at least 2 comedy movies were shown in the fourth week. Number of comedy movies shown has to be more than 5 (i.e., 2(first week) + at least 1 (second week) + at least 2 (fourth week)). Therefore; using condition 5; not more than 5 horror movies were screened. So either 3 or 4 or 5 horror movies were screened in the month. If 3 horror movies were screened in the month, then 6 suspense movies were screened and remaining 11 movies were comedy. Therefore, 11 comedy movies means 2 comedy movies in the first week and 3 comedy movies in each of the remaining weeks. But then it will contradict point 3.
If 5 horror movies were screened in the month, then 10

Refer to the data below and answer the questions that follow.

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3. 9th Februaryand 10th February were the only two days in the month where the same genre movies were screened consecutively. Other than these two days, each genre screening was followed by a different genre movie screening. For example, movies shown on 12th February (Friday)and 15th February (Monday) were of different genres.

4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

suspense movies and 5 co[illegible]

On 9th, 10th and 12th Febru[illegible] screened. Now screening of remaining 4 suspense movies in 5 days (from 15th February to 19th February) is not possible.

Therefore, 4 horror movies, 8 suspense movies and 8 comedy movies were screened in the month. Using point 3, it can be concluded that maximum of 3 movies of same genre can be shown in a week.

Using point 4, either 2 or 3 suspense movies would have been shown in the second and third week. But we know that movies of same genre were shown on 9th February, 10th February and 12th February. These three genres were either suspense or comedy. And accordingly on 11th February either comedy or suspense movie was shown. Therefore, 3 suspense movies were screened in the third week.

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S										

Case A – In the last week 3 horror movies were screened.

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S	C	S	C	S	C	H	C	H	C	H

Case B – 2 horror movies were screened in the last week of the month:

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S						C	H	C	H	C

Now one horror movie was screened on any one day among 15th, 16th, 17th, 18th and 19th.

These 5 cases can be tabulates as follows:

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Case B1	S	C	S	C	S	H	S	S	C	S	H	C	S	C	S	C	H	C	H	C
Case B2	S	C	S	C	S	H	S	S	C	S	C	H	S	C	S	C	H	C	H	C
Case B3	S	C	S	C	S	H	S	S	C	S	C	S	H	C	S	C	H	C	H	C
Case B4	S	C	S	C	S	H	S	S	C	S	C	S	C	H	S	C	H	C	H	C
Case B5	S	C	S	C	S	H	S	S	C	S	C	S	C	S	H	C	H	C	H	C

So, there are total 6 cases.

This is case A, case B3, case B4 and case B5. So, total 4 cases.

Hence, [2].

Correct Answer:

4

Time taken by you: **24 secs**

Avg Time taken by all students: **68 secs**

Your Attempt: **Correct**

Refer to the data below and answer the questions that follow.

The Mumbai Film Festival was held in the month of February 2019, in which 20 movies of 3 genres: Suspense, Horror and Comedy were screened from Monday to Friday each week. Exactly one movie was screened on a day. No movie was screened on Saturday and Sunday. It is known that 1st February, 2019 was a Monday.

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4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

3) If the last movie screened in the month was Horror, then which movie was screened on 15th **February?**

- Comedy ✓
- Suspense
- Horror
- Cannot be determined

Video Explanation:

Explanation:

Let movies of genres suspense, comedy and horror be denoted by S, C and H respectively.
Using point 1 and point 2, first six screenings (i.e., on 1st to 5th February and 8th February) were following in the given order: S, C, S, C, S, H.
Now, using point 3, it can be concluded that movies of same genre were shown on 9th February, 10th February and 12th February. These three genres were either suspense or comedy.
Using point 4, in the last five days (i.e., in the fourth week), either 2 or 3 horror movies and accordingly either 3 or 2 comedy movies were screened. Thus, at least 1 comedy movie was shown in the second week and at least 2 comedy movies were shown in the fourth week. Number of comedy movies shown has to be more than 5 (i.e., 2(first week) + at least 1 (second week) + at least 2 (fourth week)). Therefore; using condition 5; not more than 5 horror movies were screened. So either 3 or 4 or 5 horror movies were screened in the month. If 3 horror movies were screened in the month, then 6 suspense movies were screened and remaining 11 movies were comedy. Therefore, 11 comedy movies means 2 comedy movies in the first week and 3 comedy movies in each of the remaining weeks. But then it will contradict point 3.
If 5 horror movies were screened in the month, then 10 suspense movies and 5 comedy movies were screened. On 9th, 10th and 12th February, suspense movies were screened. Now screening of remaining 4 suspense movies in 5 days (from 15th February to 19th February) is not possible.
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4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

point 3, it can be concluded that maximum of 2 movies of same genre can be shown.

Using point 4, either 2 or 3 suspense movies would have been shown in the second and third week. But we know that movies of same genre were shown on 9th February, 10th February and 12th February. These three genres were either suspense or comedy. And accordingly on 11th February either comedy or suspense movie was shown. Therefore, 3 suspense movies were screened in the third week.

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Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S										

Case A – In the last week 3 horror movies were screened.

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S	C	S	C	S	C	H	C	H	C	H

Case B – 2 horror movies were screened in the last week of the month:

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S						C	H	C	H	C

Now one horror movie was screened on any one day among 15th, 16th, 17th, 18th and 19th.

These 5 cases can be tabulates as follows:

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Case B1	S	C	S	C	S	H	S	S	C	S	H	C	S	C	S	C	H	C	H	C
Case B2	S	C	S	C	S	H	S	S	C	S	C	H	S	C	S	C	H	C	H	C
Case B3	S	C	S	C	S	H	S	S	C	S	C	S	H	C	S	C	H	C	H	C
Case B4	S	C	S	C	S	H	S	S	C	S	C	S	C	H	S	C	H	C	H	C
Case B5	S	C	S	C	S	H	S	S	C	S	C	S	C	S	H	C	H	C	H	C

So, there are total 6 cases.

This is case A. Comedy movie was screened on 15th February.

Hence, [1].

Correct Answer:

Time taken by you: **9 secs**

Avg Time taken by all students: **91 secs**

Your Attempt: **Correct**

% Students got it correct: **56 %**

4) If comedy movies was screened on 18th February, then which of the following statement must be false?

- Horror movie was screened on 15th February.
- Horror movie was screened on 16th February.

Horror movie was screened on 17th February.

Horror movie was screened on 25th February.

Refer to the data below and answer the questions that follow.

The Mumbai Film Festival was held in the month of February 2019, in which 20 movies of 3 genres: Suspense, Horror and Comedy were screened from Monday to Friday each week. Exactly one movie was screened on a day. No movie was screened on Saturday and Sunday. It is known that 1st February, 2019 was a Monday.

1. In the first week, exactly three suspense movies were screened.

2. In the first two weeks, horror movie was screened only on 8th February.

3. 9th Februaryand 10th February were the only two days in the month where the same genre movies were screened consecutively. Other than these two days, each genre screening was followed by a different genre movie screening. For example, movies shown on 12th February (Friday)and 15th February (Monday) were of different genres.

4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

Video Explanation:

Explanation:

Let movies of genres suspense, comedy and horror be denoted by S, C and H respectively.
Using point 1 and point 2, first six screenings (i.e., on 1st to 5th February and 8th February) were following in the given order: S, C, S, C, S, H.
Now, using point 3, it can be concluded that movies of same genre were shown on9th February, 10th February and 12th February. These three genres were either suspense or comedy.
Using point 4, in the last five days (i.e., in the fourth week), either 2 or 3 horror movies and accordingly either 3 or 2 comedy movies were screened. Thus, at least 1 comedy movie was shown in the second week and at least 2 comedy movies were shown in the fourth week. Number of comedy movies shown has to be more than 5 (i.e., 2(first week) + at least 1 (second week) + at least 2 (fourth week)). Therefore; using condition 5; not more than 5 horror movies were screened. So either 3 or 4 or 5 horror movies were screened in the month. If 3 horror movies were screened in the month, then 6 suspense movies were screened and remaining 11 movies were comedy. Therefore, 11 comedy movies means 2 comedy movies in the first week and 3 comedy movies in each of the remaining weeks. But then it will contradict point 3.
If 5 horror movies were screened in the month, then 10 suspense movies and 5 comedy movies were screened. On 9th, 10th and 12th February, suspense movies were screened. Now screening of remaining 4 suspense movies in 5 days (from 15th February to 19th February) is not possible.
Therefore, 4 horror movies, 8 suspense movies and 8 comedy movies were screened in the month. Using point 3, it can be concluded that maximum of 3 movies of same genre can be shown in a week.
Using point 4, either 2 or 3 suspense movies would have been shown in the second and third week. But we know that movies of same genre were shown on 9th February, 10th February and 12th February. These three genres were either suspense or comedy. And accordingly on 11th February either comedy or suspense movie was shown. Therefore, 3 suspense movies were screened in the third week.

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S										

Case A – In the last week 3 horror movies were screened.

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S	C	S	C	S	C	H	C	H	C	H

Case B – 2 horror movies were screened in the last week of the month:

Refer to the data below and answer the questions that follow.

The Mumbai Film Festival was held in the month of February 2019, in which 20 movies of 3 genres: Suspense, Horror and Comedy were screened from Monday to Friday each week. Exactly one movie was screened on a day. No movie was screened on Saturday and Sunday. It is known that 1st February, 2019 was a Monday.

1. In the first week, exactly three suspense movies were screened.

2. In the first two weeks, horror movie was screened only on 8th February.

3. 9th Februaryand 10th February were the only two days in the month where the same genre movies were screened consecutively. Other than these two days, each genre screening was followed by a different genre movie screening. For example, movies shown on 12th February (Friday)and 15th February (Monday) were of different genres.

4. No suspense movie was screened in the fourth week of the month.

5. Number of suspense movies screened was double of the number of horror movies screened in the month.

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Movie	S	C	S	C	S	H	S	S	C	S	H	C	S	C	S	C	H	C	H	C

Now one horror movie was screened on any one day among 15th, 16th, 17th, 18th and 19th.

These 5 cases can be tabulates as follows:

Day	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F	M	T	W	Th	F
Date	1	2	3	4	5	8	9	10	11	12	15	16	17	18	19	22	23	24	25	26
Case B1	S	C	S	C	S	H	S	S	C	S	H	C	S	C	S	C	H	C	H	C
Case B2	S	C	S	C	S	H	S	S	C	S	C	H	S	C	S	C	H	C	H	C
Case B3	S	C	S	C	S	H	S	S	C	S	C	S	H	C	S	C	H	C	H	C
Case B4	S	C	S	C	S	H	S	S	C	S	C	S	C	H	S	C	H	C	H	C
Case B5	S	C	S	C	S	H	S	S	C	S	C	S	C	S	H	C	H	C	H	C

So, there are total 6 cases.

Case B1, case B2 and case B3 are valid cases.

Hence, [4].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **88 secs**

Your Attempt: **Skipped**

% Students got it correct: **46 %**

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Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

1) How many marks did roll number 4 get in Essay 1?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

6

Video Explanation:

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

Using conditions of Essay 1:

Using condition A: The marks can be 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10.

Using conditions A, B and C: The marks scored by roll numbers 4 and 5 were even, while marks scored by remaining students were odd numbers.

Using conditions C and F: The marks scored by Roll number 5 has to be 2.and the marks of 4 other students (i.e., roll numbers 1, 2, 3, and 6) must be 3, 5, 7 and 9 in any order. Using condition E, score of roll number 3 = 9

Using conditions A, B and E: Roll number 4 and roll number 3 must have got 6 and 3 marks respectively.

Now, using condition D, it can be concluded that roll number 1 and 6 scored 7 and 5 marks respectively.

Using conditions of Essay 2:

Using conditions A, B and D; Two out of Roll numbers 1, 3 and 4 got double marks in essay 2 than they got in Essay 1. But using condition C; it can be concluded that roll number 1 and 3 must have scored 14 and 18 marks respectively. Thus, using condition B and C, Roll number 4 got 19 marks.

So marks scored by remaining students (i.e., roll numbers 2, 5 and 6) must be among 11, 13, 15, 17.

Using condition 3: Total marks of roll number 6 (essay 1 and essay 2 combined) is the average of the total marks of roll number 4 and roll number 5 (essay 1 and essay 2 combined). Let the marks of roll number 5 in essay 2 be p and the marks of roll number 6 in essay 2 be q, thus, we have :

$25 + 2 + p = 2(5 + q)$

$17 + p = 2q$

Since p and q can take values 11/13/15/17, the only possible solution is p = 13 and q = 15

Thus, roll number 5 and 6 scored 13 and 15 marks respectively. Total marks of roll number 5 and roll number 6 = 15 and 20 respectively. If score of roll number 2 for essay 2 = 17, total marks would be 20. But total score of roll number 6 = 20. Therefore, roll number 2 must have scored 11 marks in Essay 2.

The following table can be made of the marks of all the students:

Roll number	Marks in Essay 1	Marks in essay 2	Total Marks
1	7	14	21
2	3	11	14
3	9	18	27
4	6	19	25
5	2	13	15
6	5	15	20

Roll number 4 got 6 marks in Essay 1.

Therefore, the required answer is 6.

Correct Answer:

Time taken by you: **481 secs**

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Avg Time taken by all students: **573 secs**

Your Attempt: **Correct**

% Students got it correct: **87 %**

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:
A) No one got marks more than 10 and only two students got marks in even numbers.
B) The marks of roll number 4 were double of the marks of roll number 2.
C) Roll number 5 got the least marks and it was an even number.
D) Roll number 4 got marks more than that of roll number 6.
E) Roll number 3 got the highest marks.
F) Each student got distinct marks.

2. In Essay 2:
A) Each student got distinct marks.
B) No one got marks less than 11 and only two students got marks in even numbers.
C) Roll number 4 got the highest marks.
D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

2) Which of the following statement is definitely true about the marks of roll number 5 in Essay 2?

- He/She got least marks in Essay 2.
- He/She got definitely 13 marks in Essay 2. ✔
- He/She got more than 15 marks in Essay 2.
- He/She got definitely 15 marks in Essay 2.

Video Explanation:

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

Explanation:

Using conditions of Essay 1:

Using condition A: The marks can be 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10.

Using conditions A, B and C: The marks scored by roll numbers 4 and 5 were even, while marks scored by remaining students were odd numbers.

Using conditions C and F: The marks scored by Roll number 5 has to be 2.and the marks of 4 other students (i.e., roll numbers 1, 2, 3, and 6) must be 3, 5, 7 and 9 in any order. Using condition E, score of roll number 3 = 9

Using conditions A, B and E: Roll number 4 and roll number 3 must have got 6 and 3 marks respectively.

Now, using condition D, it can be concluded that roll number 1 and 6 scored 7 and 5 marks respectively.

Using conditions of Essay 2:

Using conditions A, B and D; Two out of Roll numbers 1, 3 and 4 got double marks in essay 2 than they got in Essay 1. But using condition C; it can be concluded that roll number 1 and 3 must have scored 14 and 18 marks respectively. Thus, using condition B and C, Roll number 4 got 19 marks.

So marks scored by remaining students (i.e., roll numbers 2, 5 and 6) must be among 11, 13, 15, 17.

Using condition 3: Total marks of roll number 6 (essay 1 and essay 2 combined) is the average of the total marks of roll number 4 and roll number 5 (essay 1 and essay 2 combined). Let the marks of roll number 5 in essay 2 be p and the marks of roll number 6 in essay 2 be q, thus, we have :

$25 + 2 + p = 2(5 + q)$

$17 + p = 2q$

Since p and q can take values 11/13/15/17, the only possible solution is p = 13 and q = 15

Thus, roll number 5 and 6 scored 13 and 15 marks respectively. Total marks of roll number 5 and roll number 6 = 15 and 20 respectively. If score of roll number 2 for essay 2 = 17, total marks would be 20. But total score of roll number 6 = 20. Therefore, roll number 2 must have scored 11 marks in Essay 2.

The following table can be made of the marks of all the students:

Roll number	Marks in Essay 1	Marks in essay 2	Total Marks
1	7	14	21
2	3	11	14
3	9	18	27
4	6	19	25
5	2	13	15
6	5	15	20

Hence, [2].

Correct Answer:

Time taken by you: **430 secs**

Avg Time taken by all studen

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Your Attempt: **Correct**

% Students got it correct: **70 %**

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:
A) No one got marks more than 10 and only two students got marks in even numbers.
B) The marks of roll number 4 were double of the marks of roll number 2.
C) Roll number 5 got the least marks and it was an even number.
D) Roll number 4 got marks more than that of roll number 6.
E) Roll number 3 got the highest marks.
F) Each student got distinct marks.

2. In Essay 2:
A) Each student got distinct marks.
B) No one got marks less than 11 and only two students got marks in even numbers.
C) Roll number 4 got the highest marks.
D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

3) Who got the least marks in both the essays combined?

- Roll number 2
- Roll number 5
- Roll number 6
- Cannot be determined ✗

Video Explanation:

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

Using conditions of Essay 1:

Using condition A: The marks can be 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10.

Using conditions A, B and C: The marks scored by roll numbers 4 and 5 were even, while marks scored by remaining students were odd numbers.

Using conditions C and F: The marks scored by Roll number 5 has to be 2.and the marks of 4 other students (i.e., roll numbers 1, 2, 3, and 6) must be 3, 5, 7 and 9 in any order. Using condition E, score of roll number 3 = 9

Using conditions A, B and E: Roll number 4 and roll number 3 must have got 6 and 3 marks respectively.

Now, using condition D, it can be concluded that roll number 1 and 6 scored 7 and 5 marks respectively.

Using conditions of Essay 2:

Using conditions A, B and D; Two out of Roll numbers 1, 3 and 4 got double marks in essay 2 than they got in Essay 1. But using condition C; it can be concluded that roll number 1 and 3 must have scored 14 and 18 marks respectively. Thus, using condition B and C, Roll number 4 got 19 marks.

So marks scored by remaining students (i.e., roll numbers 2, 5 and 6) must be among 11, 13, 15, 17.

Using condition 3: Total marks of roll number 6 (essay 1 and essay 2 combined) is the average of the total marks of roll number 4 and roll number 5 (essay 1 and essay 2 combined). Let the marks of roll number 5 in essay 2 be p and the marks of roll number 6 in essay 2 be q, thus, we have :

$25 + 2 + p = 2(5 + q)$

$17 + p = 2q$

Since p and q can take values 11/13/15/17, the only possible solution is p = 13 and q = 15

Thus, roll number 5 and 6 scored 13 and 15 marks respectively. Total marks of roll number 5 and roll number 6 = 15 and 20 respectively. If score of roll number 2 for essay 2 = 17, total marks would be 20. But total score of roll number 6 = 20. Therefore, roll number 2 must have scored 11 marks in Essay 2.

The following table can be made of the marks of all the students:

Roll number	Marks in Essay 1	Marks in essay 2	Total Marks
1	7	14	21
2	3	11	14
3	9	18	27
4	6	19	25
5	2	13	15
6	5	15	20

Roll number 2 got total 14 marks in both the essays combined.

Hence, [1].

Correct Answer:

Time taken by you: **21 secs**

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Avg Time taken by all students: **26 secs**

Your Attempt: **Wrong**

% Students got it correct: **36 %**

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

4) How many marks roll number 6 got in Essay 2?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

15

Video Explanation:

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

Explanation:

Using conditions of Essay 1:

Using condition A: The marks can be 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10.

Using conditions A, B and C: The marks scored by roll numbers 4 and 5 were even, while marks scored by remaining students were odd numbers.

Using conditions C and F: The marks scored by Roll number 5 has to be 2.and the marks of 4 other students (i.e., roll numbers 1, 2, 3, and 6) must be 3, 5, 7 and 9 in any order. Using condition E, score of roll number 3 = 9

Using conditions A, B and E: Roll number 4 and roll number 3 must have got 6 and 3 marks respectively.

Now, using condition D, it can be concluded that roll number 1 and 6 scored 7 and 5 marks respectively.

Using conditions of Essay 2:

Using conditions A, B and D; Two out of Roll numbers 1, 3 and 4 got double marks in essay 2 than they got in Essay 1. But using condition C; it can be concluded that roll number 1 and 3 must have scored 14 and 18 marks respectively. Thus, using condition B and C, Roll number 4 got 19 marks.

So marks scored by remaining students (i.e., roll numbers 2, 5 and 6) must be among 11, 13, 15, 17.

Using condition 3: Total marks of roll number 6 (essay 1 and essay 2 combined) is the average of the total marks of roll number 4 and roll number 5 (essay 1 and essay 2 combined). Let the marks of roll number 5 in essay 2 be p and the marks of roll number 6 in essay 2 be q, thus, we have :

$25 + 2 + p = 2(5 + q)$

$17 + p = 2q$

Since p and q can take values 11/13/15/17, the only possible solution is p = 13 and q = 15

Thus, roll number 5 and 6 scored 13 and 15 marks respectively. Total marks of roll number 5 and roll number 6 = 15 and 20 respectively. If score of roll number 2 for essay 2 = 17, total marks would be 20. But total score of roll number 6 = 20. Therefore, roll number 2 must have scored 11 marks in Essay 2.

The following table can be made of the marks of all the students:

Roll number	Marks in Essay 1	Marks in essay 2	Total Marks
1	7	14	21
2	3	11	14
3	9	18	27
4	6	19	25
5	2	13	15
6	5	15	20

Roll number 6 got 15 marks in essay 2.

Therefore, the required answer is 15.

Correct Answer:

Avg Time taken by all studen

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Your Attempt: **Correct**

% Students got it correct: **63 %**

Refer to the data below and answer the questions that follow.

Six students participated in an essay writing competition. Each student had to write two essays – Essay 1 and Essay 2. Each essay was evaluated on a scale of 1 to 20. Total score was calculated as the sum of score of both the essays. Students were given roll numbers from 1 to 6. No two students got the same total marks in both the essays combined. Some other information is given below:

1. In Essay 1:

A) No one got marks more than 10 and only two students got marks in even numbers.

B) The marks of roll number 4 were double of the marks of roll number 2.

C) Roll number 5 got the least marks and it was an even number.

D) Roll number 4 got marks more than that of roll number 6.

E) Roll number 3 got the highest marks.

F) Each student got distinct marks.

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2. In Essay 2:

A) Each student got distinct marks.

B) No one got marks less than 11 and only two students got marks in even numbers.

C) Roll number 4 got the highest marks.

D) Exactly two students got marks double of what they got in essay 1.

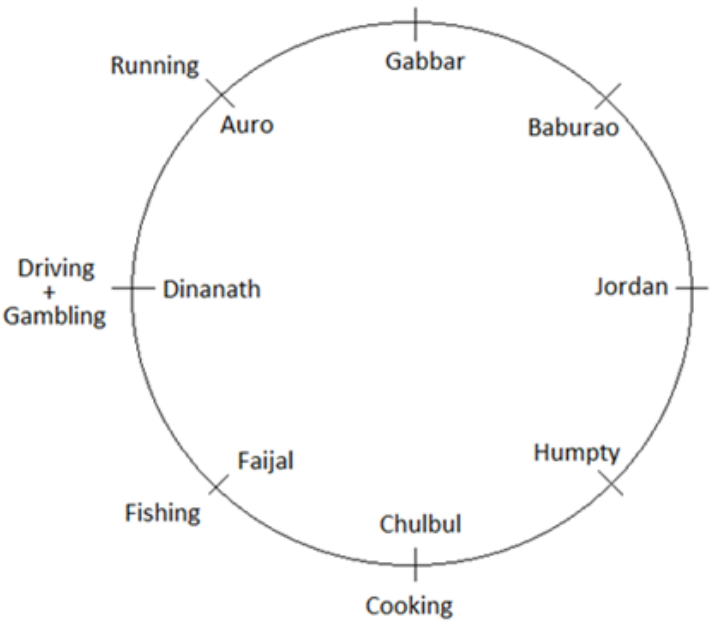
3. The total marks (marks of essay 1 and essay 2 combined) of roll number 6 was the average of that of roll number 4 and roll number 5.

Refer to the data below and answer the questions that follow.

8 friends, each of who has 2 different hobbies, sit around a circular table, facing the centre. These hobbies are categorized in three hobby types, namely - indoor, outdoor or miscellaneous. No friend has both the hobbies of the same type. Gabbar and Jordan had the same combination of hobby types and they were the only people having that particular combination. No two people sitting adjacent to each other have hobbies beginning with the same letters. The hobbies are as follows:

Indoor	Outdoor	Miscellaneous
Reading	Hunting	Dancing
Cooking	Gardening	Swimming
Writing	Running	Gymming
Singing	Busking	
Gambling	Fishing	
Baking	Driving	
	Geocaching	

Albert Pinto, a puzzle enthusiast, tried to create the arrangement but gave up after he felt that the information provided was insufficient. Surprisingly, the information he deduced till this point turned out to be correct. The arrangement is given below:



Also,
1. If the names of the hobbies start with the same letter as a person's name, he chooses exactly one of them. If only one such hobby exists, the person must choose it.
2. All pairs of people sitting opposite to each other have a hobby starting with the same letter.
3. The one who likes Gardening sits to the immediate left of the one who likes Writing
4. The one who likes Gymming is third to the right of the one

1) Auro likes ____ .

- Singing
- Writing
- Baking
- Geocaching

Video Explanation:

Explanation:

There are 6, 7 and 3 indoor, outdoor and miscellaneous hobbies. As Gabbar and Jordan are the only two people who have the same combination of hobby types, the only way this is possible is when one of their hobbies is outdoor and the other is miscellaneous. As the 2 outdoor-miscellaneous combinations are already taken care of, the other combinations involving outdoor hobbies must have indoor hobby.
Thus, we have **1 indoor-miscellaneous, 2 outdoor-miscellaneous and 5 indoor-outdoor** combinations.

Using points 4 & 5: Jordan and Gabbar must have one hobby as Swimming and Dance respectively.

Using point 1, Humpty's one hobby has to be Hunting, Baburao's one hobby is either Baking or Busking. Gabbar's one of the hobby is either Gardening or Geocaching. Using point 2, Jorden and Chulbul has to have one hobby whose name starts with G. Further it can be concluded that Jorden likes either Geocaching or Gardening and Gymming must be Chulbul's hobby. Now using point 4, Auro likes Singing. Using point 3, we can conclude that Writing must be Baburao's hobby and Gardening must be Jorden's hobby. Therefore, Baburao's second hobby must be Busking and Baking is Faijal's hobby.
Also, Gabbar and Humpty like Geocaching and Reading respectively.

The final arrangement will be,

Refer to the data below and answer the questions that follow.

8 friends, each of who has 2 different hobbies, sit around a circular table, facing the centre. These hobbies are categorized in three hobby types, namely - indoor, outdoor or miscellaneous. No friend has both the hobbies of the same type. Gabbar and Jordan had the same combination of hobby types and they were the only people having that particular combination. No two people sitting adjacent to each other have hobbies beginning with the same letters. The hobbies are as follows:

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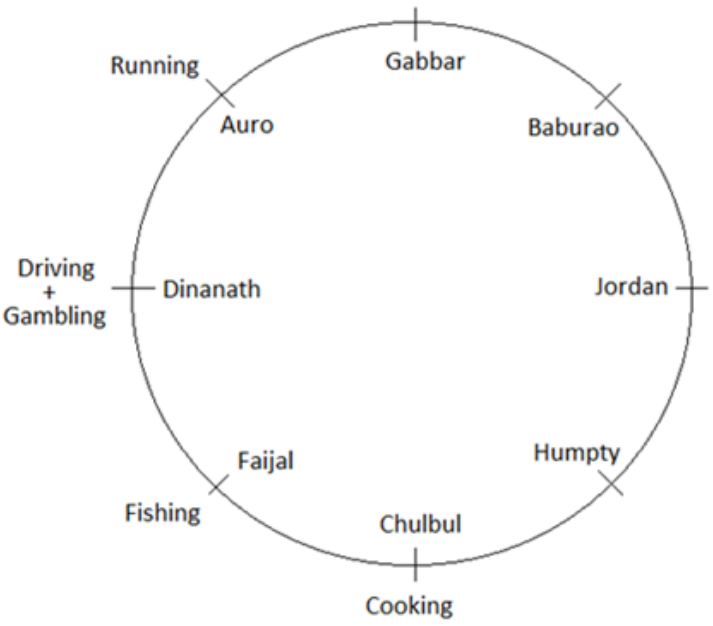

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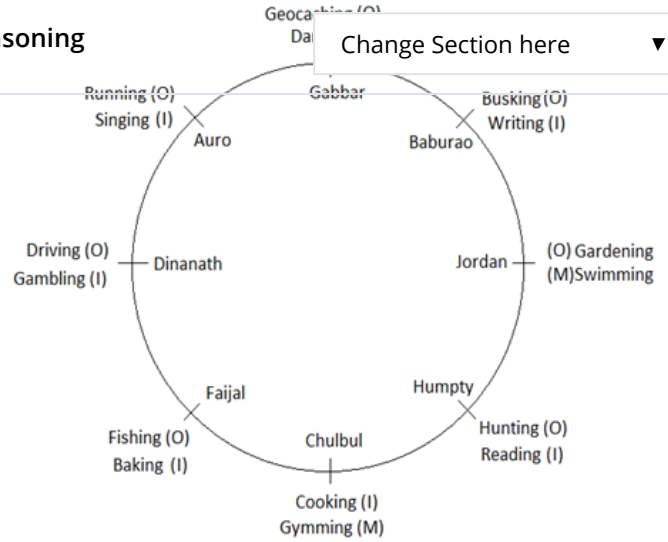

Auro likes Singing.
Hence, [1].

Correct Answer:

Time taken by you: **554 secs**

Avg Time taken by all students: **563 secs**

Your Attempt: **Skipped**

% Students got it correct: **59 %**

2) Who among the following has an indoor and a miscellaneous hobby?

- Baburao
- Chulbul
- Faijal
- Jordan

Video Explanation:

Refer to the data below and answer the questions that follow.

8 friends, each of who has 2 different hobbies, sit around a circular table, facing the centre. These hobbies are categorized in three hobby types, namely - indoor, outdoor or miscellaneous. No friend has both the hobbies of the same type. Gabbar and Jordan had the same combination of hobby types and they were the only people having that particular combination. No two people sitting adjacent to each other have hobbies beginning with the same letters. The hobbies are as follows:

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Gambling	Fishing	
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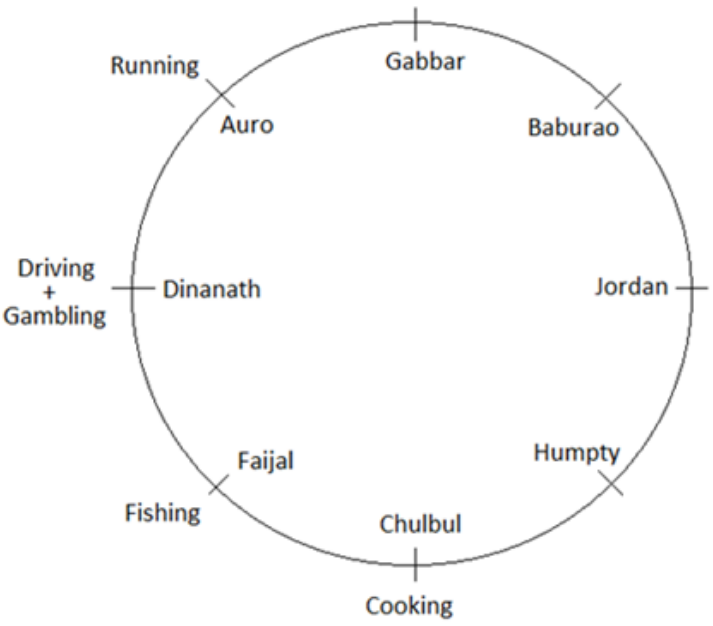

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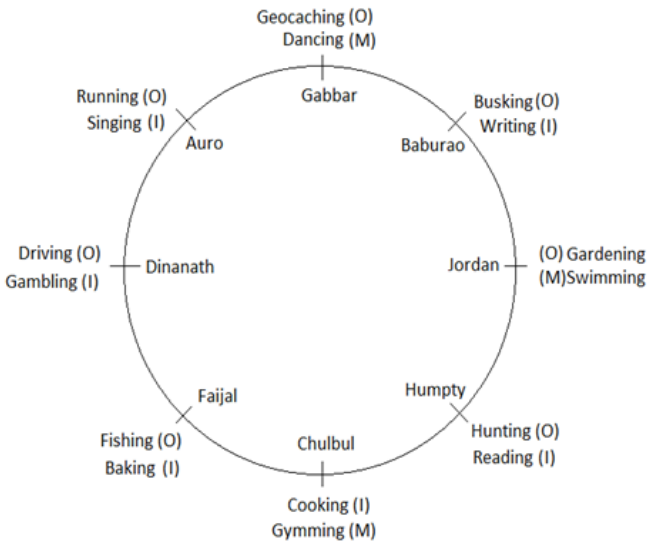
2. All pairs of people sitting opposite to each other have a hobby starting with the same letter.
3. The one who likes Gardening sits to the immediate left of the one who likes Writing
4. The one who likes Gymming is third to the right of the one

There are 6, 7 and 3 indoor, outdoor and miscellaneous hobbies. As Gabbar and Jordan are the only two people who have the same combination of hobby types, the only way this is possible is when one of their hobbies is outdoor and the other is miscellaneous. As the 2 outdoor-miscellaneous combinations are already taken care of, the other combinations involving outdoor hobbies must have indoor hobby.
Thus, we have **1 indoor-miscellaneous, 2 outdoor-miscellaneous and 5 indoor-outdoor** combinations.

Using points 4 & 5: Jordan and Gabbar must have one hobby as Swimming and Dance respectively.

Using point 1, Humpty's one hobby has to be Hunting, Baburao's one hobby is either Baking or Busking. Gabbar's one of the hobby is either Gardening or Geocaching. Using point 2, Jorden and Chulbul has to have one hobby whose name starts with G. Further it can be concluded that Jorden likes either Geocaching or Gardening and Gymming must be Chulbul's hobby. Now using point 4, Auro likes Singing. Using point 3, we can conclude that Writing must be Baburao's hobby and Gardening must be Jorden's hobby. Therefore, Baburao's second hobby must be Busking and Baking is Faijal's hobby.
Also, Gabbar and Humpty like Geocaching and Reading respectively.

The final arrangement will be,



Chulbul has an indoor and a miscellaneous hobby.
Hence, [2].

Refer to the data below and answer the questions that follow.

8 friends, each of who has 2 different hobbies, sit around a circular table, facing the centre. These hobbies are categorized in three hobby types, namely - indoor, outdoor or miscellaneous. No friend has both the hobbies of the same type. Gabbar and Jordan had the same combination of hobby types and they were the only people having that particular combination. No two people sitting adjacent to each other have hobbies beginning with the same letters. The hobbies are as follows:

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Writing	Running	Gymming
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Gambling	Fishing	
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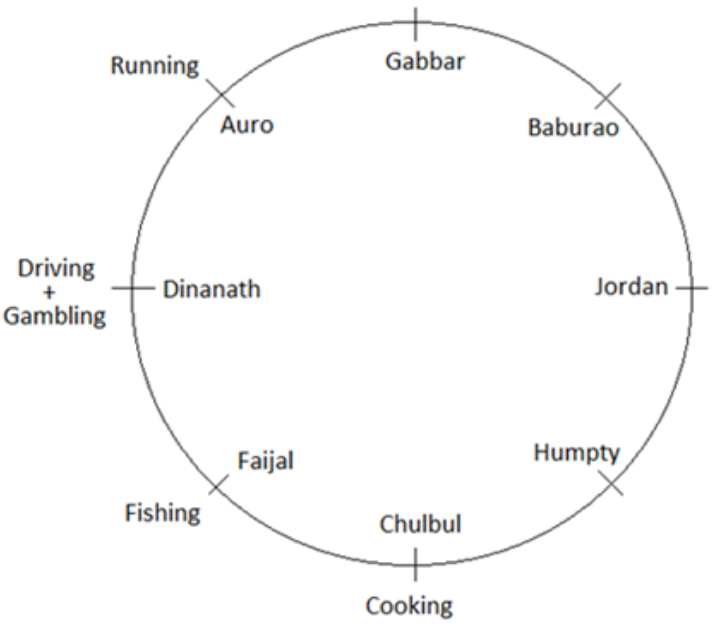

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2. All pairs of people sitting opposite to each other have a hobby starting with the same letter.
3. The one who likes Gardening sits to the immediate left of the one who likes Writing
4. The one who likes Gymming is third to the right of the one

Time taken by you: **27 secs**

Avg Time taken by all students: **110 secs**

Your Attempt: **Skipped**

% Students got it correct: **74 %**

3) Who sits opposite to the one who likes Dancing?

- Chulbul
- The one who likes Gambling
- Humpty
- The one who likes Swimming

Video Explanation:

Refer to the data below and answer the questions that follow.

8 friends, each of who has 2 different hobbies, sit around a circular table, facing the centre. These hobbies are categorized in three hobby types, namely - indoor, outdoor or miscellaneous. No friend has both the hobbies of the same type. Gabbar and Jordan had the same combination of hobby types and they were the only people having that particular combination. No two people sitting adjacent to each other have hobbies beginning with the same letters. The hobbies are as follows:

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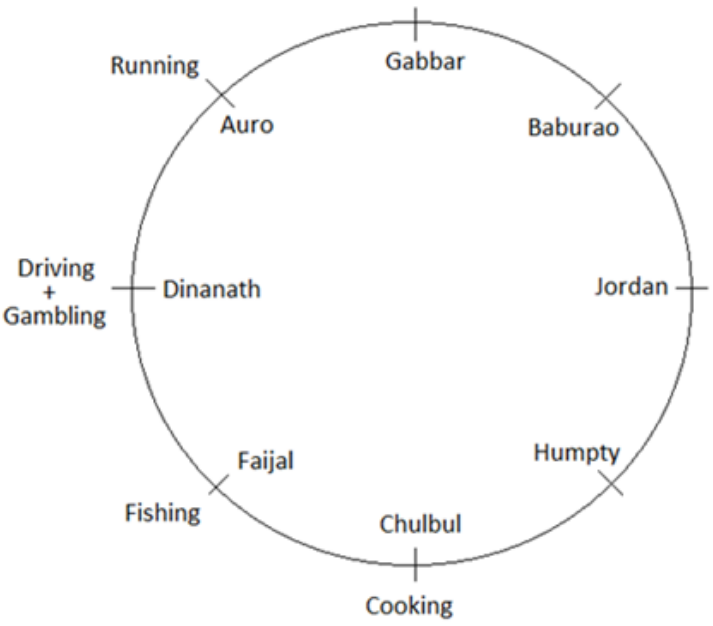

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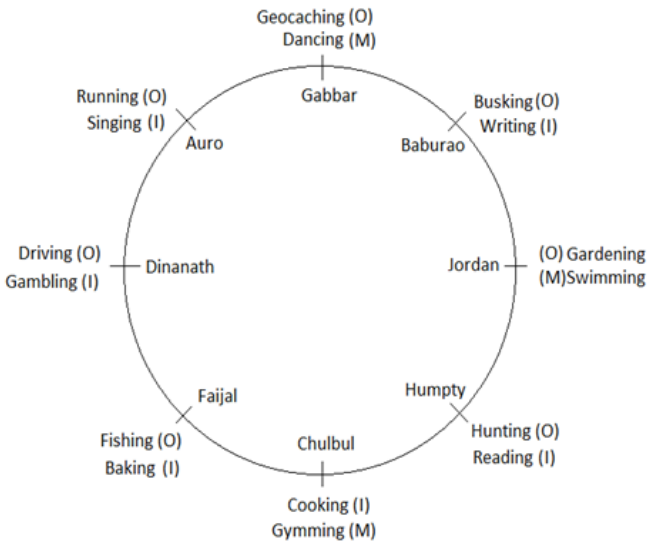
There are 6, 7 and 3 indoor, outdoor and miscellaneous hobbies. As Gabbar and Jordan are the only two people who have the same combination of hobby types, the only way this is possible is when one of their hobbies is outdoor and the other is miscellaneous. As the 2 outdoor-miscellaneous combinations are already taken care of, the other combinations involving outdoor hobbies must have indoor hobby.
Thus, we have **1 indoor-miscellaneous, 2 outdoor-miscellaneous and 5 indoor-outdoor** combinations.

Using points 4 & 5: Jordan and Gabbar must have one hobby as Swimming and Dance respectively.

Using point 1, Humpty's one hobby has to be Hunting, Baburao's one hobby is either Baking or Busking. Gabbar's one of the hobby is either Gardening or Geocaching. Using point 2, Jorden and Chulbul has to have one hobby whose name starts with G. Further it can be concluded that Jorden likes either Geocaching or Gardening and Gymming must be Chulbul's hobby. Now using point 4, Auro likes Singing. Using point 3, we can conclude that Writing must be Baburao's hobby and Gardening must be Jorden's hobby. Therefore, Baburao's second hobby must be Busking and Baking is Faijal's hobby.
Also, Gabbar and Humpty like Geocaching and Reading respectively.

The final arrangement will be,



Chulbul sits opposite to the one who likes Dancing.
Hence, [1].

Refer to the data below and answer the questions that follow.

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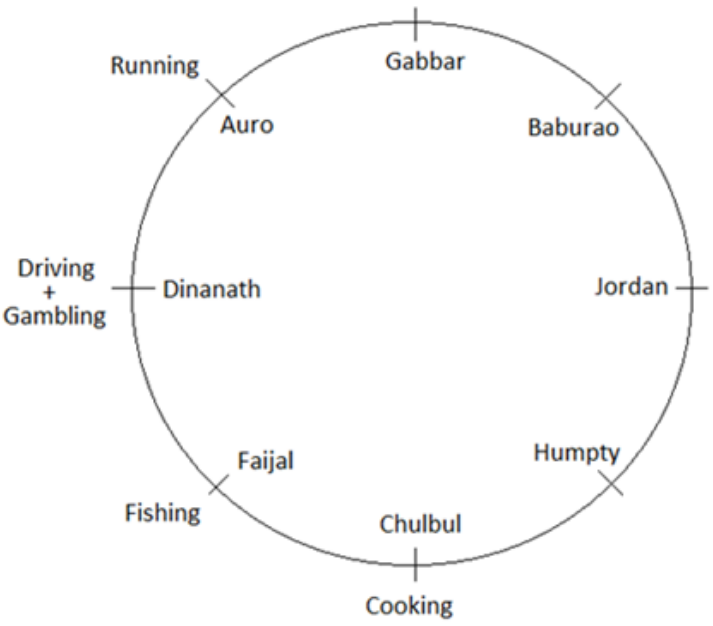

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4. The one who likes Gymming is third to the right of the one

Time taken by you: **7 secs**

Avg Time taken by all students: **90 secs**

Your Attempt: **Skipped**

% Students got it correct: **83 %**

4) Which of the following options is the odd one out?

- Baburao
- Humpty
- Faijal
- Gabbar

Video Explanation:

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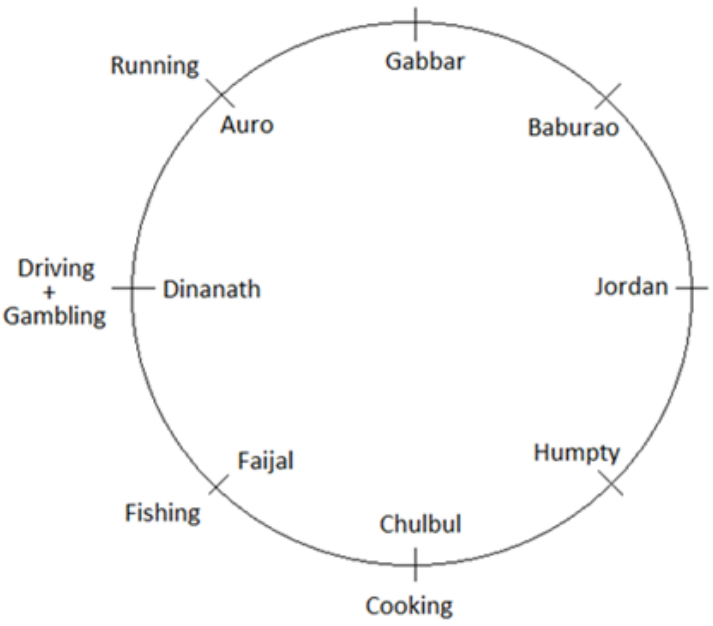

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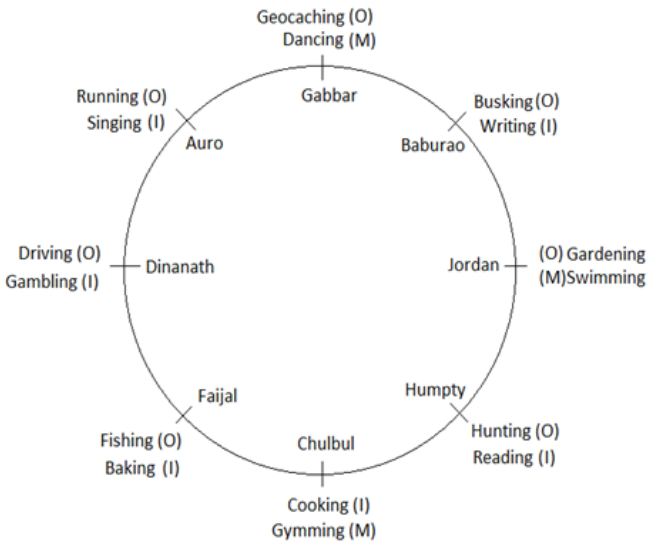

All except Gabbar have one indoor and one outdoor hobby.
Hence, [4].

Refer to the data below and answer the questions that follow.

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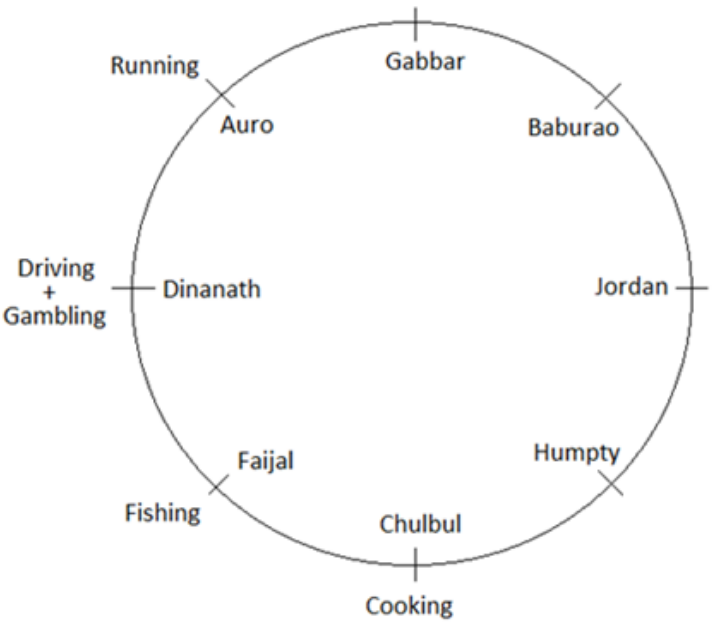

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3. The one who likes Gardening sits to the immediate left of the one who likes Writing
4. The one who likes Gymming is third to the right of the one

Time taken by you: **1 secs**

Avg Time taken by all students: **75 secs**

Your Attempt: **Skipped**

% Students got it correct: **80 %**

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Refer to the data below and answer the questions that follow.

Seven strangers were travelling together with their bag pack in the forest for one night. Each of them had two notes in their wallet, one of Rs. 500 and one of Rs. 2,000. Each of them stole few notes from wallet of at least one stranger and kept at some secret place in their bag pack. Akshay stole Rs. 8,000. Salman, Shah Rukh and Aamir stole two notes each but they did not steal any note from each other and the amount stolen by them was different. The amount stolen by Ajay was equal to the amount stolen by Aamir. Shah Rukh stole one note of Rs. 500 from Ajay while Ajay did not steal anything from Shah Rukh. Amitabh stole one note from the person, who stole one note from him. The seventh stranger was Ranbir.

1) What was the amount stolen by Ranbir?

Enter your response (as an integer) using the virtual keyboard in the box provided below.

Rs.

Video Explanation:

Explanation:

Salman, ShahRukh and Aamir stole two notes each but they did not steal any note from each other and the total amount stolen by them was different. ⇒ The amount stolen by them must be, Rs. 4,000, Rs. 2,500 and Rs. 1,000 in any order. i.e., the three stole 3 notes of Rs. 500 and 3 notes of Rs. 2,000 in all. These 3 notes were from three strangers out of Ajay, Akshay, Ranbir and Amitabh.
Akshay stole Rs. 8,000 and each of them stole few notes from at least one stranger, it can be concluded that Akshay stole 4 notes of Rs. 2,000 and Rs. 6,000 out of 8000 were stolen from Salman, Shah Rukh and Aamir (one note of Rs. 2,000 from each).
As the amount stolen by Ajay was the same as that stolen by Aamir, it can be concluded that they both stole two notes of Rs. 500 each. Thus, Shah Rukh stole one note of Rs. 500 and Rs. 2,000 each and Salman stole two notes of Rs. 2,000. Remaining two notes of Rs. 500 were stolen by Ranbir and Amitabh, one by each.
Ranbir stole Rs. 500. Therefore, the required answer is 500.

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **252 secs**

Your Attempt: **Skipped**

% Students got it correct: **49 %**

2) If Ajay stole one note from Akshay, then from whom did Aamir steal his notes?

- Akshay and Ranbir

Refer to the data below and answer the questions that follow.

Seven strangers were travelling together with their bag pack in the forest for one night. Each of them had two notes in their wallet, one of Rs. 500 and one of Rs. 2,000. Each of them stole few notes from wallet of at least one stranger and kept at some secret place in their bag pack. Akshay stole Rs. 8,000. Salman, Shah Rukh and Aamir stole two notes each but they did not steal any note from each other and the amount stolen by them was different. The amount stolen by Ajay was equal to the amount stolen by Aamir. Shah Rukh stole one note of Rs. 500 from Ajay while Ajay did not steal anything from Shah Rukh. Amitabh stole one note from the person, who stole one note from him. The seventh stranger was Ranbir.

Ajay and Ranbir

Ranbir and Amitabh

Ajay and Amitabh

Video Explanation:

Explanation:

Salman, Shah Rukh and Aamir stole two notes each but they did not steal any note from each other and the total amount stolen by them was different. ⇒ The amount stolen by them must be, Rs. 4,000, Rs. 2,500 and Rs. 1,000 in any order. i.e., the three stole 3 notes of Rs. 500 and 3 notes of Rs. 2,000 in all. These 3 notes were from three strangers out of Ajay, Akshay, Ranbir and Amitabh.

Akshay stole Rs. 8,000 and each of them stole few notes from at least one stranger, it can be concluded that Akshay stole 4 notes of Rs. 2,000 and Rs. 6,000 out of 8000 were stolen from Salman, Shah Rukh and Aamir (one note of Rs. 2,000 from each).

As the amount stolen by Ajay was the same as that stolen by Aamir, it can be concluded that they both stole two notes of Rs. 500 each. Thus, Shah Rukh stole one note of Rs. 500 and Rs. 2,000 each and Salman stole two notes of Rs. 2,000. Remaining two notes of Rs. 500 were stolen by Ranbir and Amitabh, one by each.

Of 7 notes of Rs. 500, Aamir and Ajay stole 2 notes each, Shar Rukh stole one note(from Ajay), Amitabh stole one note and Ranbir stole one note.

Since Aamir did not steal any notes from Salman and Shah Rukh, he stole his two notes of Rs. 500 from Ranbir and Amitabh each.

Hence, [3].

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **125 secs**

Your Attempt: **Skipped**

% Students got it correct: **69 %**

3) Who had stolen the 3rd **highest amount among the seven friends?**

Change Section here ▼

Refer to the data below and answer the questions that follow.

Seven strangers were travelling together with their bag pack in the forest for one night. Each of them had two notes in their wallet, one of Rs. 500 and one of Rs. 2,000. Each of them stole few notes from wallet of at least one stranger and kept at some secret place in their bag pack. Akshay stole Rs. 8,000. Salman, Shah Rukh and Aamir stole two notes each but they did not steal any note from each other and the amount stolen by them was different. The amount stolen by Ajay was equal to the amount stolen by Aamir. Shah Rukh stole one note of Rs. 500 from Ajay while Ajay did not steal anything from Shah Rukh. Amitabh stole one note from the person, who stole one note from him. The seventh stranger was Ranbir.

- Aamir
- Ajay
- Ranbir
- Shah Rukh

Video Explanation: ⌄

Explanation: ⌄

Salman, Shah Rukh and Aamir stole two notes each but they did not steal any note from each other and the total amount stolen by them was different. ⇒ The amount stolen by them must be, Rs. 4,000, Rs. 2,500 and Rs. 1,000 in any order. i.e., the three stole 3 notes of Rs. 500 and 3 notes of Rs. 2,000 in all. These 3 notes were from three strangers out of Ajay, Akshay, Ranbir and Amitabh.

Akshay stole Rs. 8,000 and each of them stole few notes from at least one stranger, it can be concluded that Akshay stole 4 notes of Rs. 2,000 and Rs. 6,000 out of 8000 were stolen from Salman, Shah Rukh and Aamir (one note of Rs. 2,000 from each).

As the amount stolen by Ajay was the same as that stolen by Aamir, it can be concluded that they both stole two notes of Rs. 500 each. Thus, Shah Rukh stole one note of Rs. 500 and Rs. 2,000 each and Salman stole two notes of Rs. 2,000. Remaining two notes of Rs. 500 were stolen by Ranbir and Amitabh, one by each.

The 3rd highest amount stolen is Rs. 2,500, stolen by Shah Rukh.

Hence, [4].

Correct Answer: ⌄

Time taken by you: **0 secs**

Avg Time taken by all students: **82 secs**

Your Attempt: **Skipped**

% Students got it correct: **80 %**

4) How much amount was stolen by Ajay? −

Enter your response (as an integer) using the virtual keyboard in the box provided below.

Refer to the data below and answer the questions that follow.

Seven strangers were travelling together with their bag pack in the forest for one night. Each of them had two notes in their wallet, one of Rs. 500 and one of Rs. 2,000. Each of them stole few notes from wallet of at least one stranger and kept at some secret place in their bag pack. Akshay stole Rs. 8,000. Salman, Shah Rukh and Aamir stole two notes each but they did not steal any note from each other and the amount stolen by them was different. The amount stolen by Ajay was equal to the amount stolen by Aamir. Shah Rukh stole one note of Rs. 500 from Ajay while Ajay did not steal anything from Shah Rukh. Amitabh stole one note from the person, who stole one note from him. The seventh stranger was Ranbir.

Video Explanation:

Explanation:

Salman, ShahRukh and Aamir stole two notes each but they did not steal any note from each other and the total amount stolen by them was different. ⇒ The amount stolen by them must be, Rs. 4,000, Rs. 2,500 and Rs. 1,000 in any order. i.e., the three stole 3 notes of Rs. 500 and 3 notes of Rs. 2,000 in all. These 3 notes were from three strangers out of Ajay, Akshay, Ranbir and Amitabh.
Akshay stole Rs. 8,000 and each of them stole few notes from at least one stranger, it can be concluded that Akshay stole 4 notes of Rs. 2,000 and Rs. 6,000 out of 8000 were stolen from Salman, Shah Rukh and Aamir (one note of Rs. 2,000 from each).
As the amount stolen by Ajay was the same as that stolen by Aamir, it can be concluded that they both stole two notes of Rs. 500 each. Thus, Shah Rukh stole one note of Rs. 500 and Rs. 2,000 each and Salman stole two notes of Rs. 2,000. Remaining two notes of Rs. 500 were stolen by Ranbir and Amitabh, one by each.
Ajay stole Rs. 1,000. Therefore, the required answer is 1000.

Correct Answer:

Time taken by you: **0 secs**

Avg Time taken by all students: **52 secs**

Your Attempt: **Skipped**

% Students got it correct: **52 %**

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