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Puzzle Test Questions for SBI PO Pre, IBPS PO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Set No 103

Directions: Study the following information carefully and answer the questions given beside:

Kathir, Vishal, Saran, Priyan, Vibin and Gautham are six friends. Each of them went for bike drive on different number of days among 5, 7, 9, 10, 12 and 15 but not necessarily in the same order. Each of them also covered different kilometers among those days like 60, 96, 112, 210, 225 and 300 but not necessarily in the same order. The average kilometer covered by each person is calculated by dividing the number of kilometers covered by him with the number of days taken by him. For example, if Saran covered 210 kilometers in 9 days, his average is $210/9$ i.e. 23.33.

Vishal went for drive for more number of days than Gautham.

The number of days taken by Gautham is equal to the total number of days taken by Saran and Vibin.

For all the persons, average is whole number and less than 50.

The average of Saran is equal to the number of days taken by Gautham for bike drive.

Kathir went for drive for more number of days than Priyan and has more average than Priyan.

The average of Vibin is twice the average of Gautham.

1. Who among the following covered highest kilometers?

- A. Priyan B. Vishal C. Kathir D. Either Priyan or Vishal
E. Either Vishal or Kathir

2. How many friends had taken more number of days than Vibin for bike drive?

- A. One B. Four C. Two D. Three E. None of these

3. What is the average of Priyan?

- A. 25 B. 8 C. 15 D. 19 E. Can't be determined

4. Who among the following covered more kilometers than Vishal?

- A. Kathir B. Priyan C. Saran D. Both Kathir and Priyan
E. Both Priyan and Saran

5. Who among the following has the lowest average?

- A. Vibin B. Gautham C. Saran D. Priyan E. None of these

Correct Answers:

1	2	3	4	5
C	B	A	D	B

Common explanation:

References

Each of them went for bike drive on different number of days among 5, 7, 9, 10, 12 and 15 but not necessarily in the same order.

Each of them also covered different kilometers among those days like 60, 96, 112, 210, 225 and 300 but not necessarily in the same order.

The number of days taken by Gautham is equal to the total number of days taken by Saran and Vibin.

Vishal went for drive for more number of days than Gautham.

Kathir went for drive for more number of days than Priyan and has more average than Priyan.

Inferences

From above statements,

The number of days taken by Gautham is equal to the total number of days taken by Saran and Vibin.

Among given number of days, there are 2 possibilities for Gautham

Saran = 5 or 7 & Vibin = 7 or 5, and then Gautham = $5 + 7 = 12$

Saran = 5 or 10 & Vibin = 10 or 5 and then Gautham = $5 + 10 = 15$

Vishal went for drive for more number of days than Gautham.

Here, Vishal (No. of days) > Gautham (No. of days). It is clearly understood that, Gautham is taken only 12 days for bike drive since maximum number of days among given is 15.

By this, we also get that Vishal has taken 15 days for bike drive (only possibility).

Now we know, Vishal = 15 days, Gautham = 12 days, Saran = 5 or 7 days and Vibin = 7 or 5 days

Kathir went for drive for more number of days than Priyan and has more average than Priyan.

Given, Kathir (No. of days) > Priyan (No. of days).

Remaining days left are, 9 and 10. Therefore, Kathir = 10 days & Priyan = 9 days

By using above information, we get the initial table as follows,

Person	Days	Kilometer	Average
Kathir	10		
Vishal	15		
Saran	5/7		
Priyan	9		
Vibin	7/5		
Gautham	12		

References

Each of them also covered different kilometers among those days like 60, 96, 112, 210, 225 and 300 but not necessarily in the same order.

For all the persons, average is whole number and less than 50.

The average of Saran is equal to the number of days taken by Gautham for bike drive.

Inferences

From above statements,

The average of Saran is equal to the number of days taken by Gautham for bike drive.

We know Gautham has taken 12 days for bike drive.

Therefore average kilometer covered per day by Saran = 12

Also we know Saran has taken either 5 or 7 days.

$$\text{Average} = \frac{\text{Total Kilometers covered}}{\text{Total No.of Days}}$$

$$\text{If Saran} = 5 \text{ days, } 12 = \frac{\text{Total Kilometers covered}}{5}$$

Then, Total Kilometers covered by Saran = $12 \times 5 = 60 \text{ Km}$

$$\text{If Saran} = 7 \text{ days, } 12 = \frac{\text{Total Kilometers covered}}{7}$$

Then, Total Kilometers covered by Saran = $12 \times 7 = 84 \text{ Km}$ (Which is not possible as 84 km is not given in statement)

Therefore we get that, Saran covered 60 Km in 5 days and Vibin has taken 7 days.

Thus we get the table as follows,

Person	Days	Kilometer	Average
Kathir	10		
Vishal	15		
Saran	5	60	12
Priyan	9		
Vibin	7		
Gautham	12		

References

Each of them also covered different kilometers among those days like 60, 96, 112, 210, 225 and 300 but not necessarily in the same order.

For all the persons, average is whole number and less than 50.

The average of Vibin is twice the average of Gautham.

Kathir went for drive for more number of days than Priyan and has more average than Priyan.

Inferences

From above statements,

For all the persons, average is whole number and less than 50.

We know total number of days taken by all persons. Now we have to check with given kilometers based on above said condition i.e. Average should be whole number & it is less than 50.

Remaining kilometers are 96, 112, 210, 225 and 300 but not necessarily in the same order.

Among given kilometers, 96 get divided by only by 12 exactly (remaining numbers results in decimal)

Thus we conclude that, Gautham has covered 96 kilometers in 12 days at an average of 8 kilometers per day $[96/12 = 8]$

The average of Vibin is twice the average of Gautham.

Given, Vibin (Average) = 2 Gautham (Average)

Now, Vibin (Average) = $2 \times 8 = 16$ & we know Vibin has taken 7 days for bike drive.

Then, Total Kilometers covered by Vibin = $16 \times 7 = 112$ Km

Thus, Vibin has covered 112 kilometers in 7 days at an average of 16 kilometers per day $[112/7 = 16]$

Kathir went for drive for more number of days than Priyan and has more average than Priyan.

Given, Kathir (Average) > Priyan (Average)

Remaining kilometers are 210, 225 and 300.

Among given kilometers, 225 get divided by only by 9 exactly (remaining numbers results in decimal).

Thus we conclude that, Priyan has covered 225 kilometers in 9 days at an average of 25 kilometers per day $[225/9 = 25]$.

Now we can easily say that, Kathir has covered 300 kilometers in 10 days at an average of 30 kilometers per day [$300/10 = 30$] i.e. Kathir (Average = 30) > Priyan (Average = 25).

Finally, Vishal has covered 210 kilometers in 15 days at an average of 14 kilometers per day [$210/15 = 14$].

Thus we get the completed table as shown below,

Person	Days	Kilometer	Average
Kathir	10	300	30
Vishal	15	210	14
Saran	5	60	12
Priyan	9	225	25
Vibin	7	112	16
Gautham	12	96	8

Answers :

1. The following common explanation, we get "**Kathir-300 kilometers**".

Hence, option C is correct.

2. The following common explanation, we get "**Four persons took more number of days than Vibin**".

Hence, option B is correct.

3. The following common explanation, we get "**25**".

Hence, option A is correct.

4. The following common explanation, we get "**Both Kathir and Priyan**".

Kathir = 300, Priyan = 225 and Vishal = 214

Hence, option D is correct.

5. The following common explanation, we get "**Gautham average is 8, lowest among all**".

Hence, option B is correct.



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