

CDC 06 2022 DILR

Directions for questions 1 to 6: Answer the questions on the basis of the information given below.

Gopi, Heera and Ramu are three ice cream vendors who buy stick ice creams of 4 brands – Amul, Mother Dairy, Creambell, and Vadilal. They sell these ice creams in five flavors - Choco Bar, Mango Duet, Raspberry Duet, Orange and Pine Apple. The table given below shows the stick ice cream flavors sold by the vendors in packets. Each flavor packet contained one ice cream each of each brand that forms that packet.

Flavor	Packet
Choco Bar	Amul, Mother Dairy, Creambell, Vadilal
Mango Duet	Amul, Mother Dairy, Creambell
Raspberry Duet	Creambell, Mother Dairy, Vadilal
Orange	Amul, Mother Dairy
Pine Apple	Amul, Creambell

The cost of a stick ice cream of Amul, Mother Dairy, Creambell and Vadilal is Rs.6, Rs.5, Rs.4 and Rs.3 respectively. Each packet of a flavor is sold for a profit equal to 300% of the number of brands used to make that packet. For example, an orange flavored packet is made with two brands Amul and Mother Dairy and will be sold at a profit of Rs.6 per packet.

The table given below shows the sales revenue (in Rs.) for each vendor for 4 consecutive hours of the day. 3 PM to 4 PM is termed the last hour. During the last hour, the total revenue generated by each vendor is Rs.5 less than what he would have generated by selling the same number of packets in any other hour. No vendor had any packet of any flavor left unsold after the last hour.

Time	Gopi	Heera	Ramu
12 PM - 1PM	102	125	114
1 PM - 2 PM	175	137	116
2 PM - 3 PM	132	132	162
3 PM - 4 PM (Last hour)	57	49	52

The following additional facts are known.

- (i) The number of packets of any flavor sold in any hour by any vendor did not exceed 2.
- (ii) All vendors sold at least one packet of Orange flavor during all the hours.
- (iii) No vendor sold any packet of Choco Bar flavor in the last hour.
- (iv) Each vendor sold one packet each of three different flavors during the last hour.
- (v) Each vendor sold more than 3 flavors of packets from 12 PM to 1 PM. Gopi, Heera and Ramu sold 2, 1 and 0 packets of Choco Bar flavor respectively from 1 PM to 2 PM and they sold 1, 2 and 2 packets of Raspberry Duet flavor respectively from 2 PM to 3 PM.

Q 1. What was the number of Amul stick ice creams sold from 12 PM to 1 PM?

- 1) 12
- 2) 13
- 3) 14
- 4) Either 12 or 13

Q 2. Which of the following statements is/are correct for the last hour?

- I. Gopi sold 2 ice creams of Mother Dairy.
- II. Heera sold 3 ice creams of Creambell.
- III. Ramu sold 3 ice creams of Amul.

- 1) I only
 - 2) III only
 - 3) I & III only
 - 4) II & III only
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Q 3. Which flavor sold the most number of packets from 1 PM to 2 PM?

- 1) Choco Bar
 - 2) Mango Duet
 - 3) Orange
 - 4) Raspberry Duet
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Q 4. The total number of Mother Dairy stick ice cream with Gopi and Heera initially was _____.

Q 5. What was the difference between the total number of Amul stick ice creams sold by Gopi and the number of Creambell stick ice creams sold by Ramu?

Q 6. Which of the following brands had the second largest number of stick ice creams sold by three vendors during the four hours?

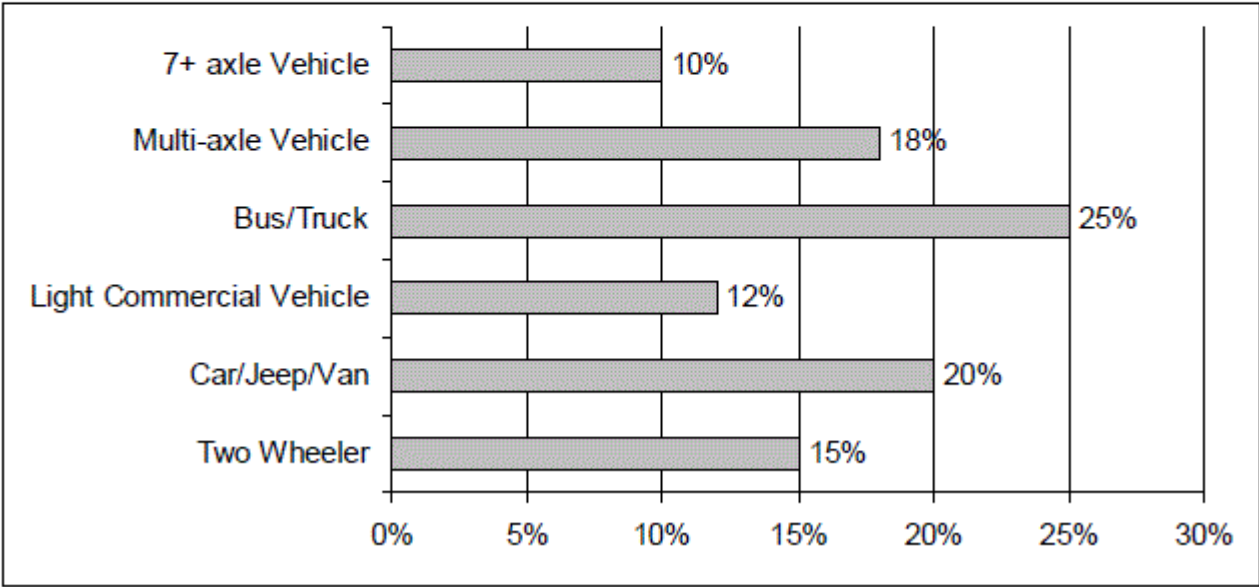
- 1) Creambell
 - 2) Mother Dairy
 - 3) Amul
 - 4) Both (1) & (3)
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Directions for questions 7 to 10: Answer the questions on the basis of the information given below.

The table given below shows the amount (in Rs.) to be paid by the different types of vehicles to cross Agra Toll Plaza at Yamuna Express Way. The bar graph given below shows the percentage break-up of the types of vehicles that crossed the Agra Toll Plaza on a particular Sunday.

The amount was collected through FASTag at Agra Toll Plaza, but if the vehicles did not have FASTag, double of the actual amount was charged in cash.

Vehicle	Two Wheeler	Car/Jeep/ Van	Light Commercial Vehicle	Bus/ Truck	Multi-axle Vehicle	7+ axle Vehicle
Toll Price per vehicle (in Rs.) [FASTag]	205	415	635	1295	1970	2250



Q 7. The amount collected from Multi-axle Vehicles at Agra Toll Plaza was what percent more/less than the amount collected from 7+ axle Vehicles on Sunday if all the Vehicles of both the categories were FASTag enabled?

- 1) 36.5%
- 2) 57.6%
- 3) 63.6%
- 4) 53.5%

Q 8. If 2% and 10% of the number of Buses/Trucks and 7+ axle Vehicles respectively crossing the Toll Plaza did not have FASTag on Sunday and the amount collected in cash from these Buses/Trucks was Rs.6,475, then how much extra amount (in Rs.) was collected in cash from these 7+ axle Vehicles on that day?

- 1) 22,500
- 2) 12,450
- 3) 11,250
- 4) 10,550

Q 9. Which of the following is the correct order for the total amount collected from different categories of vehicles crossing Agra Toll Plaza on Sunday if all the Vehicles of all categories were FASTag enabled?

- 1) Light Commercial Vehicles > Cars/Jeep/Van > Two Wheelers

- 2) Bus/Truck > Light Commercial Vehicles > Cars/Jeep/Van
 - 3) 7 + Axle Vehicles > Multi-axle Vehicles > Light Commercial Vehicles
 - 4) Multi-axle Vehicles > Bus/Truck > 7 + axle Vehicles
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Q 10. The ratio of the number of Buses and Trucks that crossed at Agra Toll plaza on Sunday was 2 : 3 respectively and the difference between the amount collected from Trucks and the Multi-axle Vehicles was Rs. 1,28,280. If 15% of the number of Cars/Jeeps/Vans crossing the Toll Plaza did not have FASTag on that day, what was the number of these Cars/Jeeps/Vans?

Directions for questions 11 to 16: Answer the questions on the basis of the information given below.

In a recently conducted elections in 9 constituencies – A, B, C, D, E, F, G, H and I – five parties – AAP, BAP, MAP, NAP, SAP – took part. Each constituency was won by a single party and in each constituency, either 3 or 4 parties contested the election. Each party won atleast one constituency. Following information is also known:

- (i) Combination of parties contesting from no two constituencies is the same.
 - (ii) AAP, MAP and NAP contested from the same number of constituencies. The total number of constituencies won by these parties is 5.
 - (iii) NAP won from two constituencies from where only 3 parties contested and defeated SAP.
 - (iv) AAP won from H and was never able to defeat BAP, who won from E, where only 3 parties contested.
 - (v) MAP defeated all other parties - AAP, NAP and SAP in G.
 - (vi) The number of constituencies from where 4 parties contested was not less than that of those from where 3 parties contested.
 - (vii) Each of A, B, D and E had a different winner, and only 3 parties contested from B, C and H.
 - (viii) The number of constituencies from BAP contested is one less than the number of constituencies from where SAP contested. BAP contested from the least number of constituencies.
 - (ix) BAP never contested together with SAP and NAP from any constituency where 3 parties took part.
- E, F and I constituency have 3 common contesting parties.

Q 11. What is the correct sequence of number of parties contesting from the constituencies A, D, F, and H respectively?

- 1) 3, 4, 4, 3
 - 2) 4, 4, 4, 3
 - 3) 3, 3, 4, 3
 - 4) 4, 3, 4, 3
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Q 12. How many contesting parties are same for constituency D, E and F?

- 1) 0
 - 2) 1
 - 3) 2
 - 4) Either (2) or (3)
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Q 13. For how many constituencies, can all the parties contesting from there be determined?

Q 14. Which of the following statements is NEVER true with respect to SAP?

- 1) The party won in constituency A.
- 2) The party defeated AAP, MAP and BAP in constituency I.
- 3) The party won from 3 constituencies.
- 4) SAP contested from 6 constituencies.

Q 15. Which parties could have lost the election in C?

- 1) SAP and AAP
- 2) SAP and MAP
- 3) SAP, AAP, and MAP
- 4) Either (1) or (2)

Q 16. Which of the following statements is NEVER true?

- I. BAP won from the maximum number of constituencies.
- II. MAP defeated SAP, NAP and BAP in D.
- III. BAP defeated SAP, NAP and AAP in F.

- 1) I only
- 2) II & III only
- 3) III only
- 4) I & II only

Directions for questions 17 to 20: Answer the questions on the basis of the information given below.

In a reality show for budding writers there are 10 rounds and four participants Ann, Ben, Cyn and Dan. In each round a situation along with the conclusion are posed and the four participants either agree or disagree (A or D) with the conclusion. They get points based on some conditions and the winner get a chance to be a script writer for their upcoming show.

The table below gives the points earned by the participants based on how many of them agree or disagree with the conclusion. For example: If 3 participants disagree, they get –5 points each and 1 participant who agrees gets +10 points.

<div>Agree</div> <div>Disagree</div>	0	1	2	3	4
0	x	x	x	x	<div>+10</div> <div>0</div>
1	x	x	x	<div>+5</div> <div>-10</div>	x
2	x	x	<div>3</div> <div>2</div>	x	x
3	x	<div>+10</div> <div>-5</div>	x	x	x
4	<div>0</div> <div>+2</div>	x	x	x	x

Further, it is also known that:

- (i) At the end of the 3rd round Ann and Dan have 7 points each whereas Cyn has agreed to all three conclusions and scored 23 points.
- (ii) At the end of the 6th round Ann and Dan have increased their scores by 10 points since the 3rd round whereas the digits of Cyn's score have reversed and Ben has the lowest score with 2 points.
- (iii) Out of the 10 rounds, Ann and Dan have the same opinion (either agree or disagree) in 8 rounds.
- (iv) At the end of the 10th round Ann and Ben have 29 points each whereas Cyn and Dan have 45 and 15 points respectively.
- (v) All of them had the same opinion in exactly 3 rounds namely the 1st, 5th and 10th rounds. Ann and Ben have the same opinion in the 7th and 8th rounds.
- (vi) From the 8th round to the 10th round the maximum increase was in Ben's score and it was 20 points.

Q 17. What were the answers of Ann, Ben, Cyn and Dan in the 3rd round if exactly two persons agree to the conclusion in the 2nd round?

- 1) A, D, A, D
- 2) D, D, A, D
- 3) A, D, D, D
- 4) D, A, A, A

Q 18. In how many out of the ten rounds did Cyn agree with the conclusion?

- 1) Five
- 2) Four
- 3) Six
- 4) Seven

Q 19. In how many rounds did three or more players disagree with the presented conclusion?

Q 20. What was the absolute difference between Cyn's score and Ann's score at the end of the 8th round?

- 1) 16
 - 2) 10
 - 3) 12
 - 4) 18
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