MBA PIONEER 2024

Data Interpretation & Logical Reasoning Missing Data

DPP:03

Directions (1-5) Read the following passage and answer the given questions.

The following table shows the marks obtained by four students Amal, Bimal, Chandan, and Deepak in English and Hindi.

	Ε	
	n	Hi
	gl	n
	is	di
	h	
Α	4	
m	5	
al)	
Ві		
m		50
al		
С		
ha	4	
nd	4	
an		
D		
ee		46
р		40
ak		

It is also known that:

- (1) The ratio of the marks obtained by Amal in English and Hindi are in the ratio of 9: 11 respectively.
- (2) The ratio of the marks obtained by Bimal in English and Hindi are in the ratio of 4: 5 respectively.
- (3) The ratio of the marks obtained by Chandan in English and Hindi are in the ratio of 11: 13 respectively.
- (4) The ratio of the marks obtained by Deepak in English and Hindi is 22: 23 respectively.

- Q1 What is the total score of Amal in English and Hindi?
- Q2 What is the difference of marks obtained by Chandan and Amal in Hindi?
- Q3 What is the difference of marks obtained by Bimal and Deepak in English?
- Q4 What is the sum of the marks scored by Bimal and Deepak in English?
- Q5 What is the average of the marks obtained by all students in Hindi?

(A) 51.25

(B) 49.50

(C) 50.75

(D) 51.75

Directions (6-10) Read the following passage and answer the given questions.

The table shows the number of different chocolates in four different shops.

Sh o ps	Da iry Mil k	5 St ar	Kit - Ka t
Α	20		15
В		25	
С	45		20
D		15	25

- **Q6** If the average number of Kit-kat chocolate in these four shops is 25, the number of Dairy milk in shop B is equal to number of Kit-kat chocolates in shop B and the ratio of number of Dairy milk chocolates in shop B to D is 8:7 then the number of Dairy milk chocolates in shop D.
 - (A) 30

(B) 40

(C) 35

(D) 45

Q7 If the average number of Kitkat chocolate in these four shops is 25, the number of Dairy milk in shop B is equal to number of Kitkat chocolates in shop B, and the ratio of number of Dairy milk chocolates in shop B to D is 8:7 then find the average number of Dairy milk chocolates at these four shops

(A) 30

(B) 35

(C) 40

(D) 45

Q8 If the total number of 5 star chocolates at all four shops is 85 and the ratio of 5 star chocolates at shops A and C is 5:4. Find the average number of 5 star chocolates at shop A, C, D.

(A) 15

(B) 20

(C) 25

(D) 30

Q9 If the number of 5 star chocolates at shop A lies between $15 \le (5 \text{ star})_A \le 28$. What could be the max possible value of 5 star chocolate at C if total 5 star chocolates is 98 and 5 star chocolates at C lies between $26 \le (5 \text{ star})_{C} \le 32.$

(A) 31

(B) 32

(C) 33

(D) 34

Q10 If the total number of chocolates at shop B is 78 then what could be the possible ratio of Dairy milk chocolate and Kitkat chocolate at shop B.

> (A) 32:21(B) 24:29

(C) Both (a) and (b)

(D) None of these

Directions (11-15) Read the following passage and answer the given questions.

In the following table data about the amount invested by a person, rate of interest time, and amount is given.

Persons	Time (in years)	Rate of Interest	Principal
Anjali	6		14000
Barsha	4		18000
Charu		14%	25500
Divya	2	15%	
Ekta	9	12%	

Note: One has to calculate SI until and unless one is directed to calculate the Cl.

- Q11 If the ratio of the rate of interest received by Barsha and Charu is 3:7 and the ratio of time between Barsha and Charu is 2:3 then the difference in the amount received by Charu and Barsha will be.
- Q12 If the principal amount invested by Divya and Ekta is same then the ratio of amount received by them will be:

(A) 5 : 8

(B) 5:7

(C) 8:7

(D) 8:11

Q13 If the rate of interest received by Anjali and Barsha is same then the ratio of the amount received by them respectively will

be:

(A) 5:8

(B) 7:6

(C) 2:5

(D) Can't be determined

Q14 What is the interest earned by Divya if the principal amount invested by her is 50%less than Charu.

(A) 3800

(B) 3700

(C) 3825

(D) 3870

Q15 If the interest earned by Anjali and Barsha is same then the possible ratio of the rate of interest received by them will be?

(A) 6:7

(B) 6:11

(C) 6: 13

(D) 6:17

Directions (16-20) Read the following passage and answer the given questions.

The given table shows the number of students in four different departments in four different subjects.

Depart ment	Market				
	Servic es	Digital	Luxury	Analyti cs	Total
Р	-	110	-	150	-
Q	120	-	70	-	400
R	_	130	110	_	480
S	90	140	=	100	=
Total	500	_	_	500	

Q16 If the ratio of the number of students of services marketing from P to R is 18 : 11, find the number of Marketing Analytics from R?

Q17 Total number of Digital marketing students from all the colleges together is 470, then what is the number of Marketing Analytic students from department Q?

Q18 If the ratio of the number of Marketing Analytics students from Q to R is 12:13, what is the number of Services Marketing students from R?

Q19 If the ratio of the total number of students from department A and the total number of Marketing Analytics students from all the departments together is 26: 25. The number of Luxury Marketing from department R is approximately what percent of the total number of students from department A all the subjects together? (only numerical value)

Q20 The number of student in Luxury
Marketing from department P is twothird of the students from department S
in Luxury Marketing. The total number of
students in Luxury Marketing form all
departments is 380. Find the number of

students in Luxury Marketing form department P?

Directions (21-25) Read the following passage and answer the given questions.

Below table shows the number of three different furniture items (table, chair and Almirah) manufactured by a company in five weeks.

	Total number of furniture items manufactured	Percentage of tables manufactured out of total items	Percentage of chairs manufactured out of total items	Percentage of Almirah manufactured out of total items
Week 1	300		10	60
Week 2	400	60	-	20
Week 3	-	30	20	-
Week 4	200	-	30	40
Week 5	-	50	-	20

Note: Some of the data in the above table is missing (shown as blanks).

Q21 If the number of almirahs manufactured in week 3 is 20 more than that of in week 2, what is the respective ratio of the number of tables manufactured in week 3 and week 4 to the number of chairs manufactured in week 1 and week 2?

 $\begin{array}{lll} \text{(A) } 12:13 & & \text{(B) } 13:12 \\ \text{(C) } 11:13 & & \text{(D) } 12:11 \end{array}$

Q22 The number of chairs manufactured in week 4 is 20 less than that of in week 3.

The number of almirah manufactured in week 2 and week 4 together is what percentage of the number of tables manufactured in week 1 and week 3 together?

 $\begin{array}{lll} \text{(A) } 76.19\% & \text{(B) } 37.49\% \\ \text{(C) } 38.39\% & \text{(D) } 95.38\% \end{array}$

Q23 If the number of almirahs manufactured in week 5 is 60. What is the difference between the total number of chairs manufactured in week 4 and week 5 together and the total number of tables manufactured in week 2 and week 4 together?

- (A) 120 (B) 130 (C) 140 (D) 150
- **Q24** If the number of tables manufactured in week 5 is 25. The number of almirah manufactured in week 5 is what percentage more or less than the number of chairs manufactured in week 2?
 - (A) 84.3%
- (B) 67.2%
- (C) 87.5%
- (D) 73.5%
- **Q25** What is the average number of tables manufactured by the company in week 1, week 2, and week 4 together?
 - (A) 120
- (B) 130
- (C) 140
- (D) 150

Directions (26-30) Read the following passage and answer the given questions.

Ankit, Bishno, Chaman, Damodar, Ethan, Finn, and Gaurav are seven people in a city. Any pair of them could either be unfamiliar, also called strangers or they can be friends, or they can be acquaintances. Every relationship is mutual. For instance, if Ankit is friends with Bishno, then Bishno is also friends with Ankit. Similarly, if Ankit is unfamiliar or a stranger to Bishno, then Bishno is unfamiliar or a stranger to Ankit. The table below provides partial information about each these people's number of friends, acquaintances, and strangers.

	No. of Friends	No. of Acquaintances	No. of Strangers
Ankit		1	4
Bishno			
Chaman		1	
Damodar			2
Ethan			1
Finn	1		
Gaurav		3	2

The following additional facts are also known.

- 1. Ankit, Bishno, and Chaman are mutual strangers.
- 2. Ankit, Damodar, and Finn are Ethan's friends.
- 3. Chaman and Gaurav are friends.
- 3. Every friend of Ankit is an acquaintance of Bishno, and every acquaintance of Bishno is a friend of Ankit.
- 4. Every friend of Bishno is an acquaintance of Ankit, and every acquaintance of Ankit is a friend of Bishno.
- **Q26** Who are Gaurav's acquaintances?
 - (A) Ankit, Bishno and Finn
 - (B) Damodar, Ethan and Finn
 - (C) Ankit, Damodar and Finn
 - (D) Bishno, Damodar and Ethan
- **Q27** Which of these pairs share the same type of relationship?
 - (A) (Bishno, Chaman) and (Damodar, Ethan)
 - (B) (Chaman, Ethan) and (Damodar, Gauray)
 - (C) (Ankit, Gaurav) and (Ethan, Finn)
 - (D) (Bishno, Ethan) and (Finn, Gaurav)
- **Q28** Who is an acquaintance of Ankit?
 - (A) Damodar
- (B) Finn
- (C) Ethan
- (D) Gauray
- **Q29** Who is an acquaintance of Chaman?
 - (A) Ethan
- (B) Bishno
- (C) Finn
- (D) Damodar
- **Q30** How many friends does Ethan have?

Answer Key

Q1	100
Q2	3
Q3	4
Q4	84
Q5	(C)
Q6	(C)
Q7	(B)
Q8	(B)
Q9	(B)
Q10	(C)
Q11	24600
Q12	(A)
Q13	(D)
Q14	(C)

Q15 (A)

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Q16
     130
     120
Q17
Q18 110
Q19 21
Q20 80
Q21
     (D)
Q22 (A)
Q23 (D)
     (C)
Q24
Q25
     (B)
Q26
     (B)
Q27 (D)
Q28 (A)
Q29 (C)
Q30 3
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Hints & Solutions

Q1. Text Solution:

Topic: Tables

The ratio of marks obtained by Amal in English and Hindi is 9 : 11. So, 9x = 45

$$x = 5$$

 $11x = 11 \times 5 = 55 \text{ Marks (Hindi)}$

The ratio of marks obtained by Bimal in English and Hindi is 4:5

So,
$$5y = 50$$

$$y = 10$$

$$4y = 40$$

For Chandan:

English: Hindi = 11:13

11z = 44

z = 4

13z = 52

For Deepak:

English: Hindi = 22:23

23a = 46

a = 2

22a = 44

	Ε	
	n	Hin
	gl	di
	is	GI
	h	
Α	4	
m	5	55
al	J	
Bi	4	
m	0	50
al	U	
С		
h		
а	<u> </u>	
n	4	52
d	-	
а		
n		

О			
е			
е	4	46	
р	4	ΤΟ	
а			
k			

Total sum = 45 + 55 = 100100 is the correct answer.

Q2. Text Solution:

Topic: Tables

	En	Hi
	gli	n
	sh	di
Am	/.5	55
al	43	55
Bi	4	5
ma	<u>4</u>	0
I	0)
Ch		
an	4 4	52
da	4	52
n		
De	/1	/1
ер	/1	4
ak		0

Required difference = 55 - 52 = 33 is the correct answer.

Q3. Text Solution:

Topic: Tables

	Ε	
	n	Hin
	gl	di
	is	GI.
	h	
Α	4	
m	5	55
al	J	
Bi	4	50
m	0	

al			
С			
h			
а	/.		
n	4 4	52	
d	4		
а			
n			
D			
е			
е	4	46	
e p a k	4 4	40	
а			
k			

Required difference = 44 - 40 = 4

4 is the correct answer.

Q4. Text Solution:

Topic: Tables

	Ε		
	n	Hi	
	gl	nd	
	is	i	
	h		
Α	4		
m	5	55	
al	J		
Bi	4		
m	0	50	
al	0		
С			
h			
а	<u> </u>		
n	4	52	
d	_		
а			
n			
D			
е	4		
е	4	46	
р	7		
ak			

Required sum = 40 + 44 = 84

84 is the correct answer.

Q5. Text Solution:

Topic: Tables

		Е	
		n	Hi
		gl	ı '' ndi
		is	1101
		h	
	Α	4	
	m	5	55
	al		
	Bi	4	
	m	0	50
	al		
	С		
	h		
	а	4	
	n	4	52
	d	ľ	
	а		
	n		
ì	D		
	е	4	//
	е	4	46
	р	_	
	ak		

Required average = $\frac{55+50+52+46}{4}$ = 50.75

The answer is option C.

Q6. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

(Dairy Milk)B, This can be read as number of Dairy milk chocolates at shop B.

Average number of Kitkat chocolates in all four $\mathsf{shops} = 25$

$$15 + a + 20 + 25 = 25 \times 4$$

 $a + 60 = 100$
 $a = 40$

(Dairy Milk)
$$_B =$$
 (Kit-kat) $_B = 40$ (Dairy Milk)) $_B$: (Dairy milk) $_{\rm D}$

$$\frac{8}{7} = \frac{40}{x}$$
$$x = 35$$

Shop D has 35 Diary milk chocolates. The answer is option C.

Q7. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Dairy milk chocolates at shop B.

Average number of Kitkat chocolates in all four $\ensuremath{\mathsf{shops}} = 25$

$$15 + a + 20 + 25 = 25 \times 4$$
 $a + 60 = 100$
 $a = 40$
(Dairy Milk) $_B = ($ Kit-kat) $_B = 40$
(Dairy Milk) $_B : ($ Dairy milk) $_D$
 $\frac{8}{7} = \frac{40}{x}$
 $x = 35$

Shop D has 35 Diary milk chocolates.

Required Average
$$=\frac{20 + 40 + 45 + 35}{4}$$

= 35

The answer is option B.

Q8. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Let the number of 5-star chocolates at A and C is 5x and 4x.

$$5x + 4x + 25 + 15 = 85$$

 $9x + 40 = 85$
 $9x = 45$
 $x = 5$
 $A = 5x = 5 \times 5 = 25$
 $C = 4x = 4 \times 5 = 20$

Average
$$=\frac{A+C+D}{3}=\frac{25+20+15}{3}$$

The answer is option B.

Q9. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Let 5 star at shop A and C is ' a ' and ' c ' respectively.

$$a + 25 + c + 15 = 98$$

 $a + c = 58$

Max value of c is 32. So, a will be

$$a + 32 = 58$$

 $\Rightarrow a = 58 - 32 = 26$

The answer is option B.

Q10. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Let the number of Diary milk and KitKat chocolate at shop B is x and y.

$$x + 25 + y = 78$$

$$\Rightarrow x + y = 78 - 25$$

$$\Rightarrow x + y = 53$$

Both (a) and (b) are possible because their sum is equal to 53.

The answer is option C.

Q11. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Time for Charu = $4 \times \frac{3}{2}$ = 6 years

Rate of interest for Barsha = $\frac{3}{7} \times 14 = 6\%$

Charu

Amount received by Barsha

=
$$\frac{18000 \times 4 \times 6}{100} + 18000$$
 = 22320 Rs.

Amount received by

 $25500 + \frac{25500 \times 14 \times 6}{100}$

= Rs. 46920

Required difference = 46920 - 22320 = 24600 Rs.

Q12. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Let the principal be x.

$$\begin{array}{l} \text{Required ratio } = \frac{x + \frac{x \times 2 \times 15}{100}}{x + \frac{x \times 9 \times 12}{100}} \\ \Rightarrow \frac{\frac{130x}{100x}}{\frac{208}{100}} \Rightarrow \frac{130}{208} = \frac{65}{104} \\ \Rightarrow 5:8 \end{array}$$

The answer is option A.

Q13. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Let the rate be r%

$$\begin{aligned} \text{Required ratio} &= \frac{14000 + \frac{14000 \times r \times 6}{100}}{18000 + \frac{18000 \times r \times 4}{100}} \\ \Rightarrow &\frac{14000 + 840r}{18000 + 720r} \end{aligned}$$

at different value of r we have different ratios. So, it cannot be uniquely determined. The answer is option D.

Q14. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Principal amount invested by Divya

$$\Rightarrow 50\% \text{ of } 25500$$
$$\Rightarrow 12750$$

Interest earned
$$=12750 imesrac{15 imes2}{100}$$
 $\Rightarrow 3825$

The answer is option C.

Q15. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Interest earned by them are equal.

$$egin{aligned} rac{6 imes R_1 imes 14000}{100} &= rac{4 imes R_2 imes 18000}{100} \ &\Rightarrow rac{R_1}{R_2} \Rightarrow rac{18000 imes 4}{14000 imes 6} \ &\Rightarrow rac{R_1}{R_2} &= rac{9}{7} imes rac{2}{3} &= rac{6}{7} \end{aligned}$$

The answer is option A.

Q16. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Total number of students in services marketing = 500

Number of students from P and R = 500 - (120 + 90)

= 290

Number of students in services marketing from department R = $\frac{11}{29} imes 2960$ = 110

Number of students in marketing analytics from department R = 480 - (110 + 130 + 110)

= 130

Q17. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Number of students in Digital marketing from Q

$$= 470 - (110 + 130 + 140)$$

Number of marketing analytics students from department Q = 400 - (120 + 90 + 70)

$$=400 - 280$$

= 120

Q18. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Number of marketing analytics students from Q

and
$$R = 500 - (150 + 100)$$

Number of students in marketing analytics from R = $\frac{13}{25}$ imes 250 = 130

Number of services marketing students from R =

$$= 480 - 370$$

= 110

Q19. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Total number of students from the department

$$A = \frac{26}{25} = \frac{x}{500}$$
x = 520

Required percentage =
$$\frac{110}{520} \times 100$$
 = 21.15% = 21% (approx.)

Q20. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

Number of students in Luxury marketing from departments P and S = 380 - (70 + 110)

According to the question,

$$\frac{(\textit{Student in luxury marketing})_P}{(\textit{Student in luxury marketing})_S} = \frac{2}{3}$$

$$2x + 3x = 200$$

$$5x = 200$$

$$x = 40$$

$$2x = 2 \times 40$$

Q21. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

From the given table:

The number of almirah manufactured in week 3

$$=20+\frac{20}{100}\times400=100$$

The number of tables manufactured in week 3 and week 4

$$=100 imesrac{30\%}{50\%}+200 imesrac{30}{100}=120$$

The number of chairs manufactured in week 1 and week 2

$$=300 imes rac{10}{100} + 400 imes rac{20}{100} = 110$$

So, required ratio = 120:110

$$= 12:11$$

The answer is option D.

Q22. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

From the given table:

The number of chairs manufactured in week 3

$$=20+200\times\frac{30}{100}=80$$

The number of almirah manufactured in week 2 and week 4 together

$$=400\times\frac{20}{100}+200\times\frac{40}{100}=160$$

The number of tables manufactured in week 1 and week 3 together

$$=300 imesrac{30}{100}+80 imesrac{30\%}{20\%}=210$$

percentage $=\frac{160}{210}\times 100=76.19\%$

The answer is option A.

Q23. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

The number of chairs manufactured in week 4 and week 5 together

$$=200 imesrac{30}{100}+60 imesrac{30\%}{20\%}=150$$

The number of tables manufactured in week 2 and week 4 together

$$=400\times\frac{60}{100}+200\times\frac{30}{100}=300$$

Required difference = 300 - 150 = 150.

The answer is option D.

Q24. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

From the given table:

The number of almirah manufactured in week 5

$$=25\times\frac{20}{50}=10$$

The number of chairs manufactured in week 2

$$=400 imes rac{20}{100} = 80$$

So, required $\%=\frac{80-10}{80}\times 100=87.5\%$ The answer is option C.

Q25. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

The number of tables manufactured by the company in week 1

$$= 300 \times \frac{30}{100} = 90$$

The number of tables manufactured by the company in week 2

$$=400\times\frac{60}{100}=240$$

The number of tables manufactured by the company in week 4

$$=200 \times \frac{30}{100} = 60$$

Required average = $\frac{90+240+60}{3}=130$ The answer is option B.

Q26. **Text Solution:**

Topic: Tables

Sub Topic: Tables with Missing Values

Let us represent them by their first alphabet in short terms as A, B, C, D, E, F and G to make it easy while filling the table.

Since A, B, and C are mutual strangers, (B, C)are strangers for A, (A, C) are strangers for B, and (A, B) are strangers for C.

Since the total number of strangers + acquaintances + friends for any among the 7 is 6.

The number of friends Ankit has is 1, and the number of friends for Gaurav is 1.

Using statement 3: Chaman and Gaurav are friends.

Using statement 2: Ankit, Damodar, and Finn are Ethan's friends. Similarly, Ethan is a friend of Ankit, Damodar, and Finn.

Using statement 4 Every friend of Bishno is an acquaintance of Ankit, and every acquaintance of Ankit is a friend of Bishno, Hence the number of acquaintances of Bishno is equal to the number of friends of Ankit.

Using statement 5 Every friend of Ankit is an acquaintance of Bishno, and every acquaintance of Bishno is a friend of Ankit, Hence the number of acquaintances of Ankit is equal to the number of friends of Bishno.

Hence Bishno has one friend, 1 Acquaintance, and 4 strangers.

For Ankit we are yet to find a relationship with Damodar, Finn, and Gaurav. Any among the three can be a stranger to Ankit, considering the three different cases.

Case 1:

Considering Finn as an acquaintance of Ankit, then Damodar and Gaurav are strangers to Ankit.

Every acquaintance of Ankit is a friend of Bishno and since the friend and acquaintance of Bishno are known the strangers are found for Bishno.

Finn is an acquaintance of Ankit, hence Ankit is an Acquaintance of Finn, Finn is a friend of Bishno and hence Bishno is a friend of Finn. But Finn has only one friend and Ethan is already a friend of Finn.

Thus this case fails.

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(F)	4(B,C,D,G)
Bishno	1(F)	1(E)	4(A,C,D,G)
Chaman	G	1	(A,B)
Damodar	E		2
Ethan	A,D,F		1
Finn	1(E)		
Gaurav	1(C)	3	2

Case 2:

Considering Gaurav as an acquaintance of Ankit, then Damodar and Finn are strangers to Ankit.

Every acquaintance of Ankit is a friend of Bishno and since the friend and acquaintance of Bishno are known the strangers are found for Bishno. Since Gaurav is a friend of Bishno. Bishno must be a friend of Gaurav. But Gaurav can only have one friend and it is already mentioned that Chaman is a friend of Gaurav and hence this case fails.

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(G)	4(B,C,D,F)
Bishno	1(G)	1(E)	4(A,C,D,F)
Chaman	G	1	(A,B)
Damodar	E		2
Ethan	A,D,F		1
Finn	1(E)		
Gaurav	1(C)	3	2

Case 3:

Considering Damodar as an acquaintance of Ankit, then Finn and Gaurav are strangers to Ankit.

Every acquaintance of Ankit is a friend of Bishno and since the friend and acquaintance of Bishno are known the strangers are found for Bishno.

Since Finn, Gaurav is a stranger to Ankit, Bishno. Ankit and Bishno are strangers to Finn and Gauray.

The 2 strangers to Gaurav and his only friend are known. Hence his three acquaintances are (Damodar, Ethan, and Finn).

Hence Gaurav is an acquaintance of Damodar, Ethan, and Finn.

Damodar is an acquaintance of Ankit and hence Ankit must be an acquaintance of Damodar.

Damodar is a friend of Bishno and hence Bishno is a friend of Damodar.

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(D)	4(B,C,F,G)
Bishno	1(D)	1(E)	4(A,C,F,G)
Chaman	G	1	(A,B)
Damodar	E,B	G,A	2
Ethan	A,D,F	G	1
Finn	1(E)	G	A,B
Gaurav	1(C)	3(D,E,F)	2(A,B)

Ethan is an acquaintance of Bishno and hence Bishno is an acquaintance of Ethan. The only stranger to Ethan who is left is Chaman. Hence Ethan is a stranger to Chaman.

The two strangers to Damodar who are left are Chaman and Finn. Chaman is a stranger to Damodar and hence Damodar is a stranger to Chaman.

The only acquaintance of Chaman who is left is Finn.

The remaining relationships with Finn are between Damodar and Chaman. Damodar is a stranger to Finn and Chaman is acquaintance of Finn.

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(D)	4(B,C,F,G)
Bishno	1(D)	1(E)	4(A,C,F,G)
Chaman	1(G)	1(F)	4(A,B,E,D)
Damodar	2(E,B)	2(G,A)	2(C,F)
Ethan	3(A,D,F)	2(G,B)	1(C)
Finn	1(E)	2(G,C)	A3(A,B,D)
Gaurav	1(C)	3(D,E,F)	2(A,B)

Hence, from the above table

Gaurav's acquaintances are Damodar, Bishno, and Finn.

Q27. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(D)	4(B,C,F,G)
Bishno	1(D)	1(E)	4(A,C,F,G)
Chaman	1(G)	1(F)	4(A,B,E,D)
Damodar	2(E,B)	2(G,A)	2(C,F)
Ethan	3(A,D,F)	2(G,B)	1(C)
Finn	1(E)	2(G,C)	A3(A,B,D)
Gaurav	1(C)	3(D,E,F)	2(A,B)

Bishno and Ethan are acquaintances, Finn and Gaurav are acquaintances.

Q28. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(D)	4(B,C,F,G)
Bishno	1(D)	1(E)	4(A,C,F,G)
Chaman	1(G)	1(F)	4(A,B,E,D)
Damodar	2(E,B)	2(G,A)	2(C,F)
Ethan	3(A,D,F)	2(G,B)	1(C)
Finn	1(E)	2(G,C)	A3(A,B,D)
Gaurav	1(C)	3(D,E,F)	2(A,B)

Acquaintance of Ankit is Damodar.

Q29. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(D)	4(B,C,F,G)
Bishno	1(D)	1(E)	4(A,C,F,G)
Chaman	1(G)	1(F)	4(A,B,E,D)
Damodar	2(E,B)	2(G,A)	2(C,F)
Ethan	3(A,D,F)	2(G,B)	1(C)
Finn	1(E)	2(G,C)	A3(A,B,D)
Gaurav	1(C)	3(D,E,F)	2(A,B)

Finn is an acquaintance of Chaman.

Q30. Text Solution:

Topic: Tables

Sub Topic: Tables with Missing Values

•			
	No. of Friends	No. of Acquainta nces	No. of Strangers
Ankit	1(E)	1(D)	4(B,C,F,G)
Bishno	1(D)	1(E)	4(A,C,F,G)
Chaman	1(G)	1(F)	4(A,B,E,D)
Damodar	2(E,B)	2(G,A)	2(C,F)
Ethan	3(A,D,F)	2(G,B)	1(C)
Finn	1(E)	2(G,C)	A3(A,B,D)
Gaurav	1(C)	3(D,E,F)	2(A,B)

Ethan has a total of 3 friends.



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