

MBA PIONEER 2024

Data Interpretation & Logical Reasoning

DPP: 6

Puzzles - 1

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

Anju and Manju both are friends. They are Doctor, Politician, has brown hairs and black hairs not necessary in the same order. It is also known that one of them is a truth teller and one of them is a liar. Truth teller is the one who always speaks truth and liar is the one who lie always. One day an external invigilator came and ask them some questions then they made the following statement.

Anju :-

I am a doctor.

Manju has brown hairs.

Manju :-

Anju is a politician.

I have black hairs.

Q1 Who is a liar?

- (A) Anju
- (B) Manju
- (C) Can't be determined
- (D) None of these

Q2 Which is the correct pair?

- (A) Politician-Black
- (B) Doctor-Black
- (C) Doctor-Brown
- (D) None of these

Q3 Who is a Politician if it is given that Anju is liar?

- (A) Anju
- (B) Manju
- (C) The one who has black hairs
- (D) Cannot be determined

Q4 Who is doctor if it is given that the Politician have brown hairs?

- (A) Anju
- (B) Manju
- (C) Can't be determined
- (D) None of these

Q5 Who is a truth teller?

- (A) Anju
- (B) Manju
- (C) Can't be determined
- (D) None of these

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

Two friends, Ashwani and Avinash are participating in a friendly game known as "Tu Jhoota Me Sachha", they are showcasing a trait of Exactly one among Truth teller, Liar and Alternator. Truth teller is the one who always says truth. Liar is the one who always lies and alternator is the one who alternates between truth and lie. They show different traits while playing. One of them is a gamer and excise inspector. While asking who belongs to which profession, they made the following statements.

Avinash :-

- (1) I am a Gamer
- (2) I am an Alternator
- (3) I am not a Excise inspector

Ashwani :-

- (1) I am a Gamer
- (2) I am a Liar
- (3) Avinash is a Excise inspector

Q6 Who is an Alternator?

- (A) Ashwani
- (B) Avinash
- (C) Both (a) and (b)
- (D) Can't be determined



[Android App](#) | [iOS App](#) | [PW Website](#)

Q7 Who is a liar?

- (A) Ashwani
- (B) Avinash
- (C) Both (a) and (b)
- (D) None of these

Q8 Who is a Gamer?

- (A) Ashwani
- (B) Avinash
- (C) Both (a) and (b)
- (D) Can't determine

Q9 Which is the correct combination?

- (A) Ashwani-liar
- (B) Avinash-Excise inspector
- (C) Ashwani-Excise inspector
- (D) Avinash-Gamer

Q10 Who is an Excise inspector?

- (A) Ashwani
- (B) Avinash
- (C) Can't determine
- (D) None of these

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

Three Businessman Ratan, Adani and Birla went to an interview where they were asked about the company and the price of the product of his company. These three people owns exactly one of the among, Car, Biscuit and Cement and the price of their product is exactly one among Rs. 1, Rs. 2 and Rs. 3. When the interviewer named Manoj asked the question then their statements are as follows :

Birla :-

- (1) Ratan own a Car company.
- (2) I did not own a Cement company.
- (3) Adani own a company who product's worth Rs. 1.

Adani :-

- (1) I did not own a Car company.
- (2) I own a company whose product's worth is Rs. 2 lakhs.
- (3) Ratan own a Cement company.

Ratan :-

- (1) I own a Biscuit company.
- (2) Birla own a company whose product's worth is of Rs. 1.
- (3) Adani own a Cement company.

Please note that :

- (1) Each one of them is a truth teller (who speak truth only), Liar (who lie only) and an alternator (who alternates between truth and lie).
- (2) Manoj knows that Ratan own a Cement company.

Q11 If Adani's second statement is true and ratan's second statement is false then whose company's product worth Rs. 2?

- (A) Adani
- (B) Ratan
- (C) Birla
- (D) Can't be determined

Q12 If Adani's second statement is false and Ratan's second statement is true then who own a product worth Rs. 2?

- (A) Adani
- (B) Ratan
- (C) Birla
- (D) Can't be determined

Q13 How many person can be an alternator?

- | | |
|-------|-------------------|
| (A) 1 | (B) 2 |
| (C) 3 | (D) None of these |

Q14 Who can be a liar?

- | | |
|-----------|-------------------|
| (A) Adani | (B) Ratan |
| (C) Birla | (D) None of these |

Q15 Who own a Car company?

- (A) Adani
- (B) Ratan
- (C) Birla
- (D) Can't be determined

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

On a podcast of TRS, three creators are invited named as Alex, Andrew and Iman. These



[Android App](#)

| [iOS App](#)

| [PW Website](#)

creators are creating content on Motivation, Finance and Technology. Also these 3 creators own exactly one car out of these three, Lamborghini, Porshe and Rolls Royce. Ranveer asked some questions and the statements of these 3 creators are as follows :

Alex :-

- (1) Andrew is a finance content creator.
- (2) I am making content on technology.
- (3) Iman has a Rolls Royce

Iman :-

- (1) Alex is not a motivational speaker.
- (2) I am making content on technology.
- (3) Andrew does not have Lamborghini

Andrew :-

- (1) I am making content on motivation.
- (2) Alex has Porshe.

(3) Iman does not have Lamborghini.

Out of these three one is truth teller (who speaks the truth), one is a liar (who speaks lie) and one is an alternator (who speaks truth and lie alternatively).

Q16 Who is a truth teller?

- | | |
|------------|-------------------|
| (A) Iman | (B) Alex |
| (C) Andrew | (D) None of these |

Q17 Who is a liar?

- | |
|-------------------------|
| (A) Iman |
| (B) Andrew |
| (C) Alex |
| (D) Can't be determined |

Q18 Who is an Alternator?

- | |
|---------------------|
| (A) Iman |
| (B) Andrew |
| (C) Alex |
| (D) Can't determine |

Q19 Who own Lamborghini?

- | |
|-------------------------|
| (A) Alex |
| (B) Andrew |
| (C) Iman |
| (D) Can't be determined |

Q20 Which is the incorrect pair?

- (A) Alex-Lamborghini
- (B) Iman-Rolls Royce
- (C) Motivation-Rolls Royce
- (D) Finance-Lamborghini

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

Five person Ashwani, Avinash, Shahzeb, Bulbul and Bhaskar reached at a shop to buy product of type A, B, C, D and E.

Their buying behaviour is as follows:

1. Ashwani purchase product A, C and E and the sum of total units purchased is 3 .
2. Avinash purchase product B and D whose sum of units purchased is 3 and total cost of these items is Rs. 11 .
3. Shahzeb purchase all five products and the sum of cost of all product is Rs. 20 .
4. Bulbul purchase product A,B and C of total cost of Rs. 9 .
5. Bhaskar purchase atleast 2 quantity of each product and atmost 4 quantity of each product of total cost of Rs. 80 and the sum of total units purchased by Bhaskar is 20 .
6. The cost of product A, B, C, D and E is Rs. 2, 3, 4, 5, 6 respectively.

Q21 How many product B was sold by shopkeeper to these 5 people?

- | | |
|-------|-------|
| (A) 6 | (B) 7 |
| (C) 8 | (D) 9 |

Q22 What is the sum of total units sold by the shopkeepers to these 5 people?

- | | |
|--------|--------|
| (A) 30 | (B) 32 |
| (C) 34 | (D) 36 |

Q23 What is the total amount spend by these 5 people?

- | | |
|---------|---------|
| (A) 130 | (B) 132 |
| (C) 140 | (D) 142 |

Q24 What is the difference of amount spend by Ashwani and Bulbul?

- | | |
|-------|-------|
| (A) 2 | (B) 3 |
| (C) 4 | (D) 5 |



Q25 Out of the transaction happened by these 5 people, which product is turn out to be a best selling product in terms of quantity?

- (A) A (B) B
 (C) D (D) E

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

Karan organized an event in which he donates the money to the beggars. He has 'a' number of coins and each time a beggar approaches Karan for donation then he divides the money into 3 equal parts and a remainder (if any). Karan gives one part of the division and the remainder to the beggar and continues the same process till he has left with less than Rs. 3 which he can give to the last beggar.

Q26 If Karan has 59 number of gold coins then how many beggar he can give money?

- (A) 5 (B) 6
 (C) 7 (D) 8

Q27 If Karan has 23 coins then how many beggars can he give money?

- (A) 4 (B) 5
 (C) 6 (D) 7

Q28 If Karan wants to donate coins to 4 beggars only then what is the minimum possible amount of coins he needs to have?

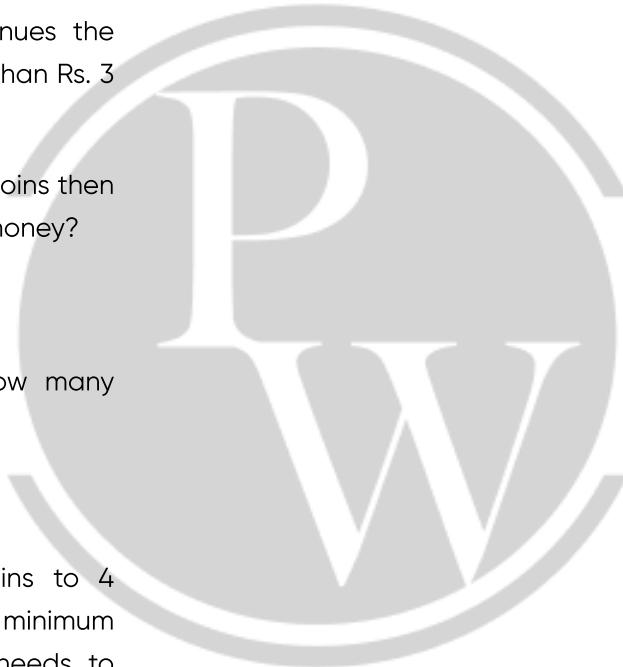
- (A) 9 (B) 10
 (C) 11 (D) 12

Q29 If Karan wants to donate coins to 4 beggars the what could be the maximum amount of coins he must have?

- (A) 9 (B) 11
 (C) 14 (D) 16

Q30 If Karan has 15 coins then how many beggar he can donate coins?

- (A) 5 (B) 6
 (C) 7 (D) 8



[Android App](#) | [iOS App](#) | [PW Website](#)

Answer Key

Q1 (C)
Q2 (B)
Q3 (A)
Q4 (C)
Q5 (C)
Q6 (A)
Q7 (B)
Q8 (A)
Q9 (B)
Q10 (B)
Q11 (A)
Q12 (B)
Q13 (C)
Q14 (B)
Q15 (C)

Q16 (A)
Q17 (C)
Q18 (B)
Q19 (A)
Q20 (B)
Q21 (C)
Q22 (C)
Q23 (B)
Q24 (B)
Q25 (B)
Q26 (D)
Q27 (B)
Q28 (A)
Q29 (C)
Q30 (A)



[Android App](#) | [iOS App](#) | [PW Website](#)

Hints & Solutions

Q1. Text Solution:

Here we don't know who is truth teller and who is liar. So two cases arises.

Case I : Anju is truth teller and Manju is liar. If Anju is a truth teller then her both statement is true and Manju is a liar then her both statements are false. one can make this table :

Anju	Doctor	Black Hairs	Truth Teller
Manju	Politician	Brown Hairs	Liar

Case II : Anju is a liar and Manju is a truth teller.

One can prepare this table :

Anju	Politician	Brown Hairs	Liar
Manju	Docotr	Black Hairs	Truth Teller

From both the cases it is not confirmed that who is liar.

Option (c) is correct answer.

Q2. Text Solution:

Here we don't know who is truth teller and who is liar. So two cases arises.

Case I : Anju is truth teller and Manju is liar. If Anju is a truth teller then her both statement is true and Manju is a liar then her both statements are false. one can make this table :

Anju	Doctor	Black Hairs	Truth Teller
Manju	Politician	Brown Hairs	Liar

Case II : Anju is a liar and Manju is a truth teller.

One can prepare this table :

Anju	Politician	Brown Hairs	Liar
Manju	Docotr	Black Hairs	Truth Teller

In both cases Doctor have black hairs. Option

(b) is correct answer.

Q3. Text Solution:

Here we don't know who is truth teller and who is liar. So two cases arises.

Case I : Anju is truth teller and Manju is liar. If

Anju is a truth teller then her both statement is true and Manju is a liar then her both statements are false. one can make this table :

Anju	Doctor	Black Hairs	Truth Teller
Manju	Politician	Brown Hairs	Liar

Case II : Anju is a liar and Manju is a truth teller.

One can prepare this table :

Anju	Politician	Brown Hairs	Liar
Manju	Docotr	Black Hairs	Truth Teller

Now it is given that Anju is a liar, it means Case II is possible. Case I is eliminated.

According to Case II, Anju is a Politician.

Q4. Text Solution:

Here we don't know who is truth teller and who is liar. So two cases arises.

Case I : Anju is truth teller and Manju is liar. If Anju is a truth teller then her both statement is true and Manju is a liar then her both statements are false. one can make this table :

Anju	Doctor	Black Hairs	Truth Teller
Manju	Politician	Brown Hairs	Liar

Case II : Anju is a liar and Manju is a truth teller.

One can prepare this table :

Anju	Politician	Brown Hairs	Liar
Manju	Docotr	Black Hairs	Truth Teller

In both cases politician have brown hairs. So option (c) is correct answer.

Q5. Text Solution:

Here we don't know who is truth teller and who is liar. So two cases arises.

Case I : Anju is truth teller and Manju is liar. If Anju is a truth teller then her both statement is true and Manju is a liar then her both statements are false. one can make this table :

Anju	Doctor	Black Hairs	Truth Teller
Manju	Politician	Brown Hairs	Liar



[Android App](#)

| [iOS App](#)

| [PW Website](#)

Manju	Politician	Brown Hairs	Liar
-------	------------	-------------	------

Case II : Anju is a liar and Manju is a truth teller.

One can prepare this table :

Anju	Politician	Brown Hairs	Liar
Manju	Docotr	Black Hairs	Truth Teller

From both the cases it is not confirmed that who is truth teller.

Option (c) is correct answer.

Q6. Text Solution:

If we focus on what Ashwani said in his second statement. He said he is a liar.

Suppose if he is a truth teller and said that I am a liar that means he is telling lie then he can't be a truth teller.

If he is a liar and said that I am a liar it means he is saying the truth and as a liar he is not allowed to tell the truth.

Then we can say that Ashwani is an alternator whose second statement is false means his 1 and 3 statement is true.

It means Ashwani is a Gamer and Avinash is an Excise inspector.

Now, Avinash's first statement said that he is Gamer and we have concluded that Ashwani is a Gamer it means Avinash's first statement is false.

Avinash can't be a Alternator then he must be a liar.

It means Avinash is an Excise inspector.

Ashwani	Gamer	Alternator
Avinash	Excise inspector	Liar

From the table we can say that Ashwani is an Alternator.

Q7. Text Solution:

Avinash is a liar.

Q8. Text Solution:

Ashwani is a Gamer.

Q9. Text Solution:

Avinash is an Excise inspector.

Q10. Text Solution:

Avinash is an Excise inspector.

Q11. Text Solution:

Here it is given that Ratan own a Cement company. One can see that Adani's 3rd statement says the same thing which means Adani's 3rd statement is true. With the same logic one can say that Birla's 1st and 2nd statement is false and True respectively. Birla's third statement must be false because it act like an alternator.

Now with the same logic as discussed above Ratan's 1st and 3rd statement is false.

Adani's 1st statement should be true because his third statement is true then it can be truth teller or an alternator. So in both cases 1st case should be true.

We can write this information as :

Name	I	II	III	Company	Worth
Adani	T	T	Biscuit		
Ratan	F	F	Cement		
Birla	F	T	F	Car	

Now Ratan's and Adani's second statement can be true or false.

If Ratan's second statement is True then one has the table as follows.

Name	I	II	III	Company	Worth
Adani	T	T/FT	Biscuit	2/3	
Ratan	F	T	F	Cement	3/2
Birla	F	T	F	Car	1

If Ratan's second statement is false then one has the table as follows :

Name	I	II	III	Company	Worth
Adani	T	T/FT	Biscuit	2/3	
Ratan	F	F	F	Cement	1
Birla	F	T	F	Car	3/2

If Adani's second statement is true then Adani's Biscuit company's product worth Rs. 2.

Q12. Text Solution:

Here it is given that Ratan own a Cement company. One can see that Adani's 3rd



[Android App](#)

| [iOS App](#)

| [PW Website](#)

statement says the same thing which means Adani's 3rd statement is true. With the same logic one can say that Birla's 1st and 2nd statement is false and True respectively. Birla's third statement must be false because it act like an alternator.

Now with the same logic as discussed above Ratan's 1st and 3rd statement is false.

Adani's 1st statement should be true because his third statement is true then it can be truth teller or an alternator. So in both cases 1st case should be true.

We can write this information as :

Name	I	II	III	Company	Worth
Adani	T	T	T	Biscuit	
Ratan	F	F	F	Cement	
Birla	F	T	F	Car	

Now Ratan's and Adani's second statement can be true or false.

If Ratan's second statement is True then one has the table as follows.

Name	I	II	III	Company	Worth
Adani	T	T	T/FT	Biscuit	2/3
Ratan	F	T	F	Cement	3/2
Birla	F	T	F	Car	1

If Ratan's second statement is false then one has the table as follows :

Name	I	II	III	Company	Worth
Adani	T	T	FT	Biscuit	2/3
Ratan	F	F	F	Cement	1
Birla	F	T	F	Car	3/2

If Adani's second statement is false then Ratan owns a company whose product worth Rs. 2

Q13. Text Solution:

Here it is given that Ratan own a Cement company. One can see that Adani's 3rd statement says the same thing which means Adani's 3rd statement is true. With the same logic one can say that Birla's 1st and 2nd statement is false and True respectively. Birla's third statement must be false because it act like an alternator.

Now with the same logic as discussed above Ratan's 1st and 3rd statement is false.

Adani's 1st statement should be true because his third statement is true then it can be truth teller or an alternator. So in both cases 1st case should be true.

We can write this information as :

Name	I	II	III	Company	Worth
Adani	T	T	T	Biscuit	
Ratan	F	F	F	Cement	
Birla	F	T	F	Car	

Now Ratan's and Adani's second statement can be true or false.

If Ratan's second statement is True then one has the table as follows.

Name	I	II	III	Company	Worth
Adani	T	T	T/FT	Biscuit	2/3
Ratan	F	T	F	Cement	3/2
Birla	F	T	F	Car	1

If Ratan's second statement is false then one has the table as follows :

Name	I	II	III	Company	Worth
Adani	T	T	FT	Biscuit	2/3
Ratan	F	F	F	Cement	1
Birla	F	T	F	Car	3/2

From the above table one can say that all three can be a alternator.

Q14. Text Solution:

Here it is given that Ratan own a Cement company. One can see that Adani's 3rd statement says the same thing which means Adani's 3rd statement is true. With the same logic one can say that Birla's 1st and 2nd statement is false and True respectively. Birla's third statement must be false because it act like an alternator.

Now with the same logic as discussed above Ratan's 1st and 3rd statement is false.

Adani's 1st statement should be true because his third statement is true then it can be truth teller or an alternator. So in both cases 1st case should be true.



We can write this information as :

Name	I	II	III	Company	Worth
Adani	T	T	Biscuit		
Ratan	F	F	Cement		
Birla	F	T	F	Car	

Now Ratan's and Adani's second statement can be true or false.

If Ratan's second statement is True then one has the table as follows.

Name	I	II	III	Company	Worth
Adani	T	T/F	T	Biscuit	2/3
Ratan	F	T	F	Cement	3/2
Birla	F	T	F	Car	1

If Ratan's second statement is false then one has the table as follows :

Name	I	II	III	Company	Worth
Adani	T	T/F	T	Biscuit	2/3
Ratan	F	F	F	Cement	1
Birla	F	T	F	Car	3/2

From the above table one can say that Ratan can be a liar.

Q15. Text Solution:

Here it is given that Ratan own a Cement company. One can see that Adani's 3rd statement says the same thing which means Adani's 3rd statement is true. With the same logic one can say that Birla's 1st and 2nd statement is false and True respectively. Birla's third statement must be false because it act like an alternator.

Now with the same logic as discussed above Ratan's 1st and 3rd statement is false.

Adani's 1st statement should be true because his third statement is true then it can be truth teller or an alternator. So in both cases 1st case should be true.

We can write this information as :

Name	I	II	III	Company	Worth
Adani	T	T	Biscuit		
Ratan	F	F	Cement		
Birla	F	T	F	Car	

Now Ratan's and Adani's second statement can be true or false.

If Ratan's second statement is True then one has the table as follows.

Name	I	II	III	Company	Worth
Adani	T	T/F	T	Biscuit	2/3
Ratan	F	T	F	Cement	3/2
Birla	F	T	F	Car	1

If Ratan's second statement is false then one has the table as follows :

Name	I	II	III	Company	Worth
Adani	T	T/F	T	Biscuit	2/3
Ratan	F	F	F	Cement	1
Birla	F	T	F	Car	3/2

From the above table one can say that Birla owns a Car company.

Q16. Text Solution:

Let Andrew is a truth teller then his statements are true then we can form the table as

	I	II	III		
Iman	F	T/F	F	Technology Finance	/ Rolls Royce
Alex	F	F/T	T	Finance Technology	/ Porshe
Andrew	T	T	T	Motivation	Lamborghini

This case is invalid as we don't know which one is alternator and which one is a liar. No possible arrangement exists.

Let Alex is a truth teller, then one has the table as follows :

	I	II	III		
Iman	T	F	T/F	Motivation	Rolls Royce
Alex	T	T	T	Technology	Lamborghini / Porshe
Andrew	F	F/T	T	Finance	Porshe / Lamborghini

This case is invalid as we don't know which one is alternator and which one is a liar. No possible arrangement exists.

Let Iman is a truth teller then the table are as follows



	I	II	III		
Iman	T	T	T	Technology	Porshe
Alex	F	F	F	Finance	Lamborghini
Andrew	T	F	T	Motivation	Rolls Royce

This case is valid.

Iman is a truth teller.

Q17. Text Solution:

Alex is a liar.

Q18. Text Solution:

Andrew is a alternator.

Q19. Text Solution:

Alex owns Lamborghini.

Q20. Text Solution:

Iman-Rolls Royce is incorrect pair.

Q21. Text Solution:

For Ashwani :-

Here it is given that Ashwani purchase product A, C and E and total units purchased is 3.

Which means he purchase 1 product of each type.

For Avinash :-

Avinash purchase product B and D whose sum of units is 3 and total cost is Rs. 11 so it is only possible if he buy 2 units of B and 1 unit of D.

For Shahzeb :-

Shahzeb purchase all product whose total cost become 20.

As we can see if he purchase 1 unit of each product then its cost become Rs. 20, it means Shahzeb purchase 1 unit of each product.

For Bulbul :-

Bulbul purchase product A, B and C of total cost 9. As we can see the sum of the cost of 1 unit of A, B and C, is also 9. So we can say that she purchased 1 unit each.

For Bhaskar :-

Bhaskar purchase total 20 units.

He purchase atleast 2 of each type and atmost 4 of each type.

After removing 2 units of each type we have,
 $A + B + C + D + E = 10$ units

Now if we put $A = 2$, $B = 2$, $C = 2$, $D = 2$ and $E = 2$ then the above condition satisfied.

So, we can say that A, B, C, D and E purchase 4 units of each type.

The table looks like that :

	A	B	C	D	E	Units	Cost
Ashwani	1	1		1	3		₹ 12
Avinash	2	1			3		₹ 11
Shahzeb	1	1	1	1	1	5	₹ 20
Bulbul	1	1	1			3	₹ 9
Bhaskar	4	4	4	4	4	20	₹ 80

From the above table we can say that the shopkeeper sell 8 units of product B to these 5 people.

Q22. Text Solution:

We can say that shopkeeper sold total 34 units to these 5 people.

Q23. Text Solution:

They spend 132 ₹.

Q24. Text Solution:

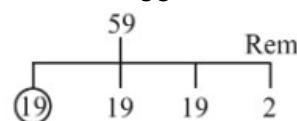
The required difference is $12 - 9 = 3$ ₹.

Q25. Text Solution:

'B' was sold by the shopkeeper maximum times so option (B) will be the correct choice.

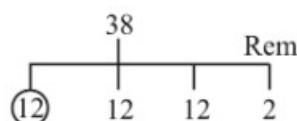
Q26. Text Solution:

For first beggar :-



Coins given to beggar = $19 + 2 = (21)$

For second beggar :-



Coins = $12 + 2 = 14$

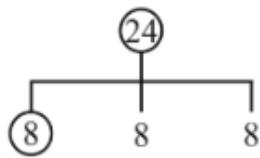
For third beggar :-



[Android App](#)

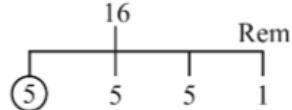
| [iOS App](#)

| [PW Website](#)



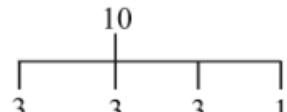
Coins given = 8

For fourth beggar :-



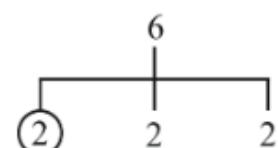
Coins given = 6

For fifth beggar :-



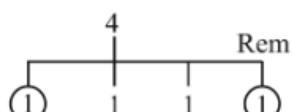
Coins given = 4

For sixth beggar :-



Coins given = 2

For seventh beggar :-

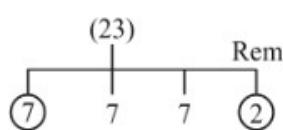


Coins given = 2

Remaining coins is 2, which is given to 8th beggar.

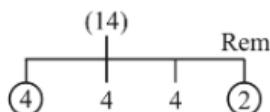
Q27. Text Solution:

For first beggar :-



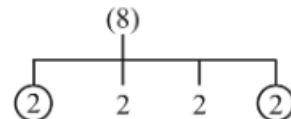
Coins given = 9

For second beggar :-



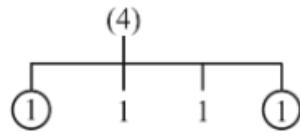
Coins given = 6

For third beggar :-



Coins given = 4

For fourth beggar :-



Coins given = 2

and remaining 2 coins will be given to last beggar.

Q28. Text Solution:

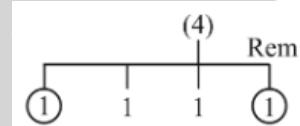
We have to find the minimum possible number of coins given to the beggar which is 2.

Last beggar receive 2 coins and it is only possible if second last also receive 2 coins.

Last beggar \rightarrow 2

Second last beggar \rightarrow 2

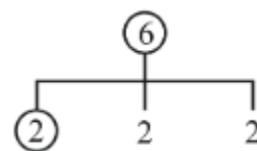
Before giving coins to the second last beggar he has 4 coins.



Second last = 2

Last = 2

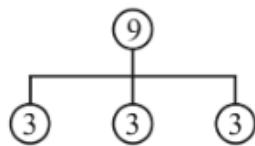
If the third last receive 2 coins and remainder while dividing the coins will be zero then number of coins he has before giving to Karan is 6.



Third last beggar : 2

After giving coins to the first beggar Karan has 6 coins then he must give 3 coins to the first beggar and minimum coins he has will be 9.





First beggar → 3

For further division → 6

So 9 will be the correct answer.

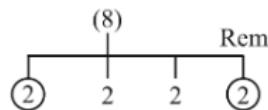
Q29. Text Solution:

(The steps will be similar as per the solution of question no. 28.)

The last 2 beggar must receive 2 coins each which is the only possible way.

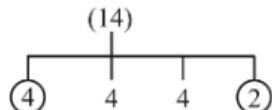
Before giving donation to second last beggar he must have 4 coins.

After giving donation to second last beggar he has 4 coins then to maximize the number of coins we can say that he must have 8 coins to satisfy.



4 coins donated to third last/second beggar then he left with 4 coins.

Again to maximize, he must given 6 coins to the first beggar and have 14 coins initially.

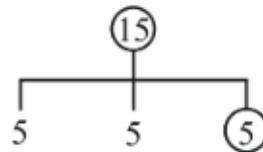


6 coins given to first beggar and left with 8

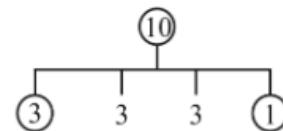
coins.

Maximum coins he can have to serve 4 beggar are 14.

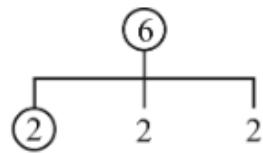
Q30. Text Solution:



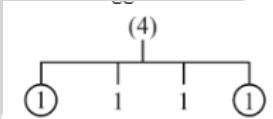
For first = 5 coins given



4 coins given to 2nd beggar



2 coins given to 3rd beggar



2 coins given to 4th beggar. Now remaining 2 coins will be given to last beggar.

Total = 5 beggars



[Android App](#) | [iOS App](#) | [PW Website](#)