

# **Analytical Reasoning**



#### Practice Exercise: I

## Direction for Questions: (1 to 3)

- (i) Six friends A, B, C, D, E and F are sitting along the sides of a hexagonal table for playing a game, though not necessarily in the same order.
- (ii) F, who is sitting exactly opposite of A, is to the immediate right B.
- (iii) D is between A and B and is exactly opposite to C.
- 1. A is sitting between which of the following pairs of persons?
  - (a) Dand E
- (b) B and E
- (c) Eand C
- (d) None of these
- 2. Who is sitting opposite B?
  - (a) E
- (b) F
- (c) A
- (d) C
- 3. Three of the following are alike in a certain way on the basis of sitting positions and so from a group. Which is the one that does not belong to the group?
  - (a) B, C
- (b) A, D
- (c) B, F
- (d) E, A

# Direction for Questions: (4 to 8)

A, B, C and D are four friends living together in a flat and they have an agreement that whatever edible comes they will share equally among themselves. One day A's uncle came to him and gave a box of laddoos. Since no one was around, A divided the laddoos in four equal parts and ate his share after which he put the rest in the box. As he was closing the box, B walked in and took the box. He again divided remaining laddoos in four equal parts. A and B ate one part each and kept the remaining laddoos in the box. Suddenly C appeared and snatched the box. He again divided the laddoos in

four equal parts, the three of them ate one part each and kept the remaining laddoos in the box. Later when D came, he again divided the laddoos in four equal parts and all four ate their respectively share. In total D ate 3 laddoos.

- 4. How many laddoos, in total did C eat?
  - (a) 12
- (b) 15
- (c) 39
- (d) None of these
- 5. How many laddoos, in total did B eat?
  - (a) 24
- (b) 15
- (c) 39
- (d) None of these
- 6. How many laddoos, in total did A eat?
  - (a) 56
- (b) 68
- (c) 71
- (d) None of these
- 7. How many laddoos were given to A by his Uncle?
  - (a) 128
- (b) 125
- (c) 113
- (d) None of these
- 8. How many laddoos, did A eat the first time?
  - (a) 32
- (b) 24
- (c) 15
- (d) None of these

# Direction for Questions: (9 to 13)

- (i) A, B, C, D, E, F G and H are eight friends. Three of then play cricket and table tennis each and two of them play football. Each one of them has a different height
- (ii) The tallest does not play football and the shortest does not play circket
- (iii) F is taller than A and D but shorter than H and B. E who does not play cricket, is taller than B and is second to the tallest. G is shorter than D but taller than A.
- (iv) H, who is fourth from the top, play table tennis with D.
- (v) G does not play either cricket or football. B doest not play football.

0	Who is the tellect?		promp e .			
9.	Who is the tallest? (a) B	/b) 11		ion (Qs.18 to 22)		
	(a) B (c) C	(b) H	A, B, (	C, D, E, F and G a	are travelling	in three different
		(d) Data inadequate		es. There are at least		
10	). Who is the shortest?			, Santro, Opel- an		
	(a) G	(b) D	among	are two engineers, t	.wo doctors a	nd three teachers
	(c) A	(d) Data inadequate	arrione (i)			
11	Which of the following	pairs of friends play foot ball?	(1)	the pair of sisters		es not travel with
	(a) EF	(b) EA	(ii)			with anti-O
	(c) HF	(d) Data inadequate	(11)	B, a male engii teacher in Maruti		s with only G, a
		·	(iii)	D is a male doctor		
12		from the top when they are		) Two persons belo		cama profossion
		ing order of their height?	(14)	do not travel in th		
	(a) Fifth	(b) Fourth	(v)	A is not an engine		
	(c) Sixth	(d) None of these				no in Januro.
13	. Which of the following	g group of friends play circket		nat is F's profession	n?	
	(a) CAE	(b) CBF		Engineer	(b) Doctor	
	(c) CBA	(d) None of these	(c)	Teacher	(d) Data ina	adequate
n:.	and an fact Occupit		19. ln v	which vehicle does	s C travel?	
ווט	ection for Questions:	(14 to 17)		Maruti	(b) Santro	
			(c)	Opel	(d) Data ina	adequate
	Entrance Corr	ridor	20 \4/6	iolo of the fellowing		•
				ich of the following		e three teachers?
	- Тетоте под при помента помента Помента помента		(a) (c)	GEF GBF	(b) GEA	a ala anno a l
		office block for six officers-	(0)	GDF	(d) Data ina	adequate
		and Coccupy offices to the	21. Ho	w many lady memb	pers are there	e among them?
		e enters the office block) and	(a)	Three	(b) Four	
		left of the corridor. E and F	(c)	Three of four	(d) Data ina	adequate
		sides of the corridor but their	22. Wh	ich of the following	t is not corre	<b>^</b> t
		other. The offices of C and D		E-Male-Teacher	, 10 1101 001100	J.
		not have a corner office. F's		B-Male-Engineer		
		corridor than A's, but on the		A-Female-Teacher	-	
Sai	ne side.			All are correct		
14.	If E sits is his office ar	nd faces the corridor, whose	Discosti	(0 00   0==		
	office is to his left?			on (Qs. 23 to 27)	t poor	
	(a) A	(b) B		ds A, B, C, D, E and		
	(c) C	(d) D		- Pentasoft, Quark		
15	Whose office face A's	office?	enoneo	es and Udupi, ar	id each we	ars company-
10.	(a) A	(b) C	Pink Yo	red different colou	rea stills, v	iz. Blue, Green,
	(c) D	(d) E	the sam	llow, Purple and R	ed though no	ot necessarily in
	(0)	(u) L		The one wearing the	he Blue chirto	works in Sunmat
16.	Who is/are F's neighbo	our (s)?	(1)	and the one wea		
		(b) A & B		Pentasoft.	my a dieti	I SIME WORKS III
	(c) C	(d) B & C		F does not work in I	Raymond's or	Trumn & Gatos
17	D was heard telling oor	neone to go further down the		A wears Pink shirt		
		e on the right. To whose room		D does not work in		
	was he trying to direct		(.,)	coloured shirt is no	ot sponsored	hy Raymond's
	ao no a ying to direct	mar heroom:			- <sub>1</sub> - 000100	~ y hayinondo.

(a) A

(c) C

(b) B

(d) F

(v) Eworks in Udupi and neither D nor B works in Sunmet

(vi) Trump & Gates does not sponsor Purple or

Yellow coloured shirts and C works in Pentasoft.

<ul><li>23. Which colour shirt is sponsored by Raymond's?</li><li>(a) Yellow</li><li>(b) Blue</li></ul>	<ul><li>30. Which course is taught in the month of January?</li><li>(a) C</li><li>(b) D</li><li>(c) E</li><li>(d) Data inadequate</li></ul>
(c) Pink (d) Cannot be determined	Direction (Qs. 31 to 34) Rajeev planted some plants in his lawn but in a certain
<ul><li>24. Which pair is correctly matched?</li><li>(a) Red-Raymond's-A</li><li>(b) Red-Trump &amp; Gates-B</li><li>(c) Green-Raymond's-C</li><li>(d) None of these</li></ul>	fixed pattern:  (i) In most of the rows there are neither Rose nor Marigold  (ii) There are two more row of Orchids than Tuilps and two more rows of Rose than Orchids.
<ul> <li>25. Which of the following is true?</li> <li>(a) Udupi sponsors Green Shirt</li> <li>(b) D is working in Trump &amp; Gates</li> <li>(c) E wears Red Shirt</li> <li>(d) Red shirt is sponsored by Trump &amp; Gates</li> </ul>	<ul> <li>(iii) There are four more rows of Rose than Tulips.</li> <li>(iv) There aren't as many rows of Lilly as Fireball.</li> <li>(v) There is one less Marigold row than Rose</li> <li>(vi) There is just one row of Tulips</li> <li>(vii) The maximum number of rows he planted is six.</li> </ul>
<ul> <li>26. What is the sequence of companies representing A, B, C, D, E &amp; F?</li> <li>(a) Quark, Pentasoft, Trump &amp; Gates, Raymond's Udupi, Sunmet</li> <li>(b) Quark, Trump &amp; Gates, Pentasoft, Raymond's</li> </ul>	<ul><li>31. How many rows of rose the planted?</li><li>(a) Two</li><li>(b) Five</li><li>(c) Four</li><li>(d) cannot be determined</li></ul>
Udupi, Sunmet  (c) Quark, Pentasoft, Trump & Gates, Sunmet,  Udupi, Raymond's  (d) None of these	<ul><li>32. Which of the above information is redundant and can be dispensed with?</li><li>(a) (i) (b) (iii)</li><li>(c) (i) and (iii) both (d) All are necessary</li></ul>
27. If Raymond's and Sunmet decide to interchange the colours of sponsored shirts, then which two persons had to interchange their shirt?  (a) D & F  (b) A & C  (c) D & E  (d) B & D	<ul><li>33. What is the sum of the rows of Orchids and Marigold he planted?</li><li>(a) Three</li><li>(b) Nine</li><li>(c) Seven</li><li>(d) Cannot be determined</li></ul>
Direction (Qs. 28 to 30)  Five courses – A, B, C, D and E each of one month duration are to be taught from January to May one after the other though not necessarily in the same order by	34. How many rows of fireball did he plant  (a) Two  (b) Six  (c) Two or Six  (d) Data inadequate
ectures P, Q, R, S and T. P teaches course 'B' but not in the month of April or May. Q teaches course 'A' in the month of March. R teaches in the month of January but does not teach course 'C' or 'D'.	Direction (Qs. 35 to 37)  (i) Five friends, Amar, Kapil, Sarvesh, Rohan and Nagesh wear trousers of different colours—red, yellow, blue, white and green (not necessarily
28. Which course is taught by S?  (a) C  (b) E  (c) Either C or D  (d) D	in the same order) (ii) Each one of them has different likings, viz, reading, playing travelling, singing and writting. (iii) Kapil, who has liking for singing does not wear
29. Which lecture's course immediately follows after course B?  (a) Q (b) P (c) S (d) T	yellow trousers. Sarvesh wears red trouser and does not like reading or writing. Nagesh likes to play and does not wear blue or Yellow trousers.  Amar has liking for writing and Rohan does not wear yellow or green trousers.

35. What is the colour of Kapil trousers?

- (a) White
- (b) Blue
- (c) Green
- (d) Data inadequate

36. What is the liking of Sarvesh?

- (a) Writing
- (b) Travelling
- (c) Reading
- (d) Data inadequate

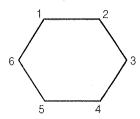
**37.** Which of the following combintions of person–colour-liking is correct?

- (a) Rohan-Blue-Reading
- (b) Nagesh-White-Playing
- (c) Amar-Yellow-Writing
- (d) None of these

## Solutions

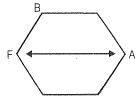
#### Solution (1 to 3)

Construct the following figure:

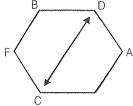


 From the second statement it is clear that F and A are sitting opposite to each other and F is to the immediate right of B.

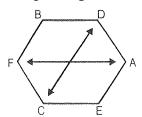
The sitting arrangement can be like this



 From the third statement it is clear that D is sitting between A and B and is opposite to C.
 The sitting arrangement can be like this



• There is only one vacant position for E, so the overall sitting arrangement will be like this



- 1. (a)
- 2. (a)
- 3. (a)

## Solution (4 to 8)

We will start solving this problem from the last line. D ate 3 laddoos.

Before D ate the laddoos there should be  $3 \times 4 = 12$  laddoos.

Before C ate the laddoos there should be  $12 \times 3 + 12 = 48$  laddoos.

Before B ate the laddoos, there should be  $24 \times 2 + 48 = 96$  laddoos. Before A ate laddos, these should be

$$\frac{96 \times 4}{3}$$
 = 128 laddoos

At the Beginning 128 laddoos

	Α	В	С	D	Remaining
A's share	32				96
B's share	24	24			48
C's share	12	12	12		12
D's share	3	3	3	3	0
	71	39	15	3	

Now we can answer all the question very easily.

- 4. (b)
- 5. (c)
- 6. (c)
- 7. (a)
- 8. (a)

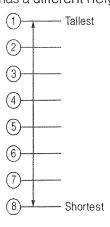
#### Solution 9 to 13

We will read each statement one by one and start coding accordingly.

• Three of them play cricket and table tennis each and two of them play football.

3Cr 3TT 2Fb

Each of them has a different height



- The tallest does not play football and the shortest does not play cricket.
  - 1) Fb (8) Cx
- F is taller than A and D but shorter than H and B. The arrangement can be like this



**Note**: Here the heights of H & B and A & D are not given.

E does not play cricket

$$E \rightarrow \mathcal{Q}^{\zeta}$$

and is taller than B and also second to the tallest

So E's position is (2)

G is shorter than D but taller than A

• H is fourth from the top so its position is  $H \rightarrow 4$ 

H plays TT with D so

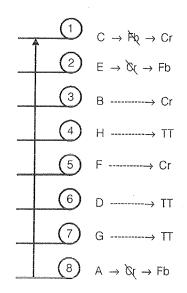
$$H \rightarrow TT$$

$$D \rightarrow TT$$

 G does not play either cricket or football so G will play table tennis

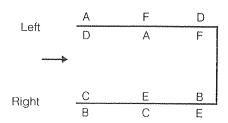
$$G \rightarrow TT$$

Now overall arrangements will be like this



- 9. (c)
- 10. (c)
- 11. (b)
- 12. (a)
- 13. (b)

Solution (14 to 17)



From the last sentence, we get that F is also on the left side, So E will be on the right side. D will be on the left side

E does not have a corner office so E must be in the middle.

E and F do not face each other and F's office is further down the corridor, so F occupies the last office on the left side.

Office of C and D face each other, so C will have first office on the right side and D will have the first office on the left side.

Final office arrangement will be like this



- 14. (c)
- 15. (d)
- 16. (a)

Since there is a corridor between office of F & B so A is the only neighbour of F.

17. (b)

#### Solution (18 to 22)

There are three vehicles

Maruti, Santro & Opel

There are two engineers, two doctors and three teachers among them

So 2 Engg. 2 Doc 3 Tea

 C is lady doctor and does not travel with the pair of sisters, A & F

$$C \rightarrow Doc$$

$$C \rightarrow A F$$

•	B is a male engineer and travels only with G a		Vehicle	Person	Profession
	teacher in Maruti,		Maruti	В	Engg.
	so G must be female also			<u>G</u>	Tea.
	$\underline{G} \rightarrow \text{Tea}$		Santro	A	Tea.
	$B \rightarrow Engg.$			E	Engg.
	B <u>G</u> → Maruti			D	Doc.
•	D is male doctor		Onal		
	$D \rightarrow Doc$		Opel	<u>C</u>	Doc.
•	A is not an engineer and travels in Santro so			E	Tea.
	$A \to Santro$	<b>18</b> . (a)			
	Obviously C is travelling in Opel.	<b>19</b> . (c)			
	C and D are doctors and can't travel in same vehicle	<b>20.</b> (b)			
	so D must travel in Santro. Now we will get following	` ,			
	table.	<b>21</b> . (b)			
		<b>22</b> . (d)			

## Solution (23 to 27)

These questions can be solved easily by tabular chart.

Friends Companies	А	В	С	D	Ε	F
Pentasoft						
Quark						
Raymonds						
Sunmet						
T&G						
Udupi						

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft						
Quark						
Raymonds						
Sunmet						
T&G						
Udupi						

We will start reading each conditions and mark a ' $\checkmark$ ' sign or '\*' sign accordingly. From the condition (i) we get following tables.

Friends Companies	Α	В	С	D	E	F
Pentasoft						
Quark						
Raymonds						
Sunmet			N. CHANGE STATE OF THE PARTY OF			
T&G						
Udupi			**************************************			***************************************

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	×	✓	х	Х	×	×
Quark	×	х				
Raymonds	×	Х	***************************************			
Sunmet	✓	×	×	×	Х	×
T&G	×	ж				
Udupi	×	х				

Further applying condition (ii) we get following tables.

Friends	A	В	С	D	E	T -
Companies		B				F
Pentasoft						
Quark						
Raymonds					***************************************	ж
Sunmet		·			***************************************	
T&G					**************************************	×
Udupi		,				<del>4-3-0</del> 0-000

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	×	<b>√</b>	Ж	×	ж	ж
Quark	×	×				·
Raymonds	×	×	And the second second second		·	
Sunmet	✓	ж	×	×	×	×
T&G	×	×		***************************************		
Udupi	х	ж	****************			

Applying condition (iii) we get following tables.

Friends Companies	А	В	С	D	Е	F
Pentasoft	ж	×				
Quark	✓	ж	×	ж	×	ж
Raymonds	×					х
Sunmet	ж					
T&G	×		*****			×
Udupi	×					

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	ж	<b>√</b>	×	ж	ж	Ж
Quark	×	ж	<b>√</b>	×	ж	ж
Raymonds	ж	ж	х			
Sunmet	<b>√</b>	×	ж	×	ж	×
T&G	ж	×	ж			i i i i i i i i i i i i i i i i i i i
Udupi	×	×	×			**************************************

Further applying condition (iv) we get following tables.

	The state of the s	NAMES OF TAXABLE PARTY.	MANAGEMENT PROPERTY.	CONTRACTOR OF THE PARTY OF THE	ORIGINAL PROPERTY.	
Friends Companies	A	В	С	D	E	F
Pentasoft	ж	3¢				AMELANNIAN,
Quark	1	×	×	×	и	×
Raymonds	×					×
Sunmet	×				Marika , , , , , ,	••••••••
T&G	35			ж	*	×
Udupi	ж					

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	ж	✓	×	ж	×	×
Quark	ж	ж	<b>√</b>	×	×	×
Raymonds	ж	ж	×		×	***************************************
Sunmet	✓	×	×	×	×	×
T&G	×	×	×			
Udupi	×	×	×			

Further applying condition (v) we get following tables.

Friends Companies	A	В	С	D	Е	F
Pentasoft	×					
Quark	√	×	×	×	×	ж
Raymonds	×				×	×
Sunmet	×	×	,	×	Х	
T&G	ж			×	х	×
Udupi	×	×	×	×	<b>√</b>	×

	r	·			O TOTAL CONTROL OF THE PARTY OF	
Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	×	<b>V</b>	×	×	×	ж
Quark	Х	×	✓	×	x	ж
Raymonds	×	ж	×		ж	
Sunmet	✓	×	×	ж	Х	ж
T&G	ж	ж	х			***************************************
Udupi	ж	×	×			

Further applying (vi) we get following tables.

Friends Companies	А	В	С	D	Е	F
Pentasoft	×	×	✓	×	ж	×
Quark	✓	×	×	ж	ж	ж
Raymonds	×		×		×	ж
Sunmet	ж	· )¢	ж	×	ж	
T&G	Х		×	×	×	ж
Udupi	×	×	х	×	✓	ж

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	×	✓	*	×	×	×
Quark	×	х	√	ж	Х	Х
Raymonds	х	×	х		ж	
Sunmet	<b>√</b>	х	×	×	ж	х
T&G	×	×	ж	×	×	
Udupi	×	×	ж			

Now we will mark '✓' on the only left space and mark '×' on the remaining spaces. Then the following table emerges.

Friends Companies	Α	В	С	D	E	F
Pentasoft	×	×	<b>√</b>	×	×	×
Quark	✓	ж	×	×	×	×
Raymonds	×	×	×	✓	ж	х
Sunmet	×	×	×	×	×	<b>√</b>
T&G	*	✓	×	×	ж	×
Udupi	×	×	×	х	✓	*

Colour Companies	Blue	Green	Pink	Yellow	Purple	Red
Pentasoft	×	✓	×	ж	Х	×
Quark	×	ж	✓	ж	×	Х
Raymonds	×	х	×	✓	×	×
Sunmet	✓	×	×	×	×	×
T&G	×	×	×	×	×	✓
Udupi	×	×	×	×	✓	х

With the help of the above tables we can solve all the questions easily.

**Note:** After drawing table further modification can be done according to given conditions. There is no need to draw further tables. Tables drawn further is just to explain the steps in elaborate manner.

- **23**. (a)
- 24. (b)
- 25. (d)
- 26. (b)
- 27. (a)

#### Solution (28 to 30)

We can be solved these questions with the help of tabular chart.

Months Courses	Jan	Feb	Mar	Apr	May
A					
В					
С					
D					
E					

Lecturers Courses	Р	Q	R	S	Т
А					
В					
С					
D		·			
E					

We will start reading each condition and mark '√' sign or '\*' sign accordingly.

P teaches course B but not in the month of April or May

Months Courses	Jan	Feb	Mar	Apr	Мау
А					
В				ж	×
C.					
D					
Е					***************************************

Lecturers Courses	Р	Q	R	S	T
Α	×				
В	1	×	×	×	×
С	×				
D	x				
Е	ж				

Q teaches course A in the month of March

Months Courses	Jan	Feb	Mar	Apr	May
Α	×	×	✓	sc	×
В			ж	×	×
С			ж		
D			×		
E			ж		muo.

Lecturers Courses	Р	Q	R	S	Т
Α	×	1	×	×	×
В	1	×	×	ж	×
С	×	ж			
D	ж	×			
E	×	×			

R teaches in the month of January but does not teach course C or D.

<u></u>				S	
Months Courses	Jan	Feb	Mar	Apr	Мау
А	×	×	1	×	×
В	х	<b>V</b>	×	×	×
С	×	×	ж		
D	×	х	×		
E	<b>V</b>	ж	ж	ж	×

Lecturers Courses	Р	Q	R	S	Т
A	×	1	×	×	×
В	<b>√</b>	×	×	х	×
С	ж	×	×		
D	×	×	×		***************************************
E	ж	ж	<b>√</b>	×	×

Now, we can easily answer given questions with the help of above table.

**Note:** After drawing first table further modifications can be done according to conditions given. There is no need to draw further table. Further table drawn is just to explain the steps in elaborate manner.

Final table can be referred as.

28. (c)

29. (a)

30. (c)

Month	Subject	Teacher
January	E	R
February	В	Р
March	Α	Q
April	C/D	S/T
May	D/C	T/S

Solution (31 to 34)

$$\rightarrow$$
 0 = T + 2

$$R = O + 2$$

Also

$$R = M + 1$$

$$T = 1$$
,  $O = 3$ ,  $R = 5$ ,  $M = 4$ 

Since from (iv) There are not as many rows of lily as fireball

So, 
$$Lily = 2$$
,  $Fireball = 6$ 

Now we can answer all the question easily.

- 31. (b)
- **32**, (c)
- 33. (c)
- 34. (b)

### Solution (35 to 37)

These questions can be solved easily by drawing tabular chart.

Colour Friends	Red	Yellow	Blue	White	Green
Amar					
Kapil					
Sarvesh					
Rohan					
· Nagesh				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Liking Friends	Read	Play	Travel	Sing	Write
Amar					
Kapil					
Sarvesh		Journal of the Control of the Contro			
Rohan					
Nagesh					

We will start reading each condition and mark '✓' sign or '\*' sign accordingly.

• Kapil, who has liking for singing does not wear yellow trouser.

Colour Friends	Red	Yellow	Blue	White	Green
Amar					
Kapil		×			
Sarvesh					
Rohan					
Nagesh					

Liking Friends	Read	Play	Travel	Sing	Write
Amar				ж	
Kapil	×	×	×	✓	×
Sarvesh				×	
Rohan				×	
Nagesh				*	

Sarvesh wears read trouser and does not like reading or writing.

Colour Friends	Red	Yellow	Blue	White	Green
Amar	×				
Kapil	Х	×			
Sarvesh	<b>V</b>	×	×	×	ĸ
Rohan	×				
Nagesh	×				

Liking Friends	Read	Play	Travel	Sing	Write
Amar				*	
Kapil	×	×	Х	✓	×
Sarvesh	×			×	×
Rohan				×	
Nagesh				ĸ	

Nagesh like to play and does not wear blue or yellow trousers.

Colour Friends	Red	Yellow	Blue	White	Green
Amar	ж				
Kapil	×	×			
Sarvesh	✓	×	×	ж	×
Rohan	×		2-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		William of the Indian Park Cooking or
Nagesh	×	ж	×		hermány é nimeravannasom

Liking Friends	Read	Play	Travel	Sing	Write
Amar		×		×	
Kapil	×	×	×	<b>√</b>	х
Sarvesh	ж	×		×	×
Rohan		×		ж	
Nagesh	Х	✓	×	×	×

• Amar has liking for weiting and Rohan does not wear yellow or green trousers.

	<del></del>	7	T	·	
Colour Friends	Red	Yellow	Blue	White	Green
Amar	×	✓			
Kapil	×	×			
Sarvesh	<b>√</b>	×	×	×	×
Rohan	×	×			х
Nagesh	×	х	×		***************************************

Liking Friends	Read	Play	Travel	Sing	Write
Amar	×	×	×	ж	✓
Kapil	ж	ж	×	<b>√</b>	ж
Sarvesh	×	ж	<b>√</b>	×	×
Rohan	1	ж	х	×	×
Nagesh	×	<b>√</b>	×	×	×

Now, we can easily answer given questions with the help of above table.

**Note:** After drawing first table further modifications can be done according to conditions given there is no need to draw further table. Further table drawn is just to explain the steps in elaborate manner.

- 35. (d)
- 36. (b)
- 37. (c)