



Date : 18th Dec 2023

Logical Reasoning – Scheduling Puzzle

English

Direction 1 – 5 : Read the information carefully and answer the following questions.

A minister has six meetings to attend scheduled from morning to evening. Some meetings are of one hour duration and some are of two hours duration, starting from 8 am in the morning to 10 pm in the evening. 4th meeting, which is to be scheduled at 3 pm, is for one hour only. The last meeting for the day is to be scheduled for two hours. The second meeting is for two hours. There is a gap of one hour between the end of a meeting and start of the next meeting.

Q:1 Which meeting is scheduled for 3 pm to 4 pm?

1. Second
2. Third
3. Fourth
5. None of the above

Q:2 If the second meeting is reduced one hour then the third meeting will start at?

1. 9 am
2. 12 noon
3. 1 pm
5. None of the above

Q:3 At what time does the 5th meeting end?

1. 4 pm
2. 6 pm
3. 7 pm
5. 9 pm

Q:4 The third meeting is scheduled at _____ and for how many hours?

1. 1 pm, 1 hour
2. 2 pm, 2 hours
3. 1 pm, 2 hours
5. None of the above

Q:5 How many meetings are for more than one hour?

1. None
2. One
3. Two
5. Cannot be determined

Direction 6 – 10 : Read the given information carefully and answer the following questions.
Ten persons were born on two different dates i.e. 13

and 20 of the five different months starting from August to December. D was born on an odd number date of the month which has an even number of days. Three persons were born between D and X. Not more than one person was born between M and K. W is older than F who was not born in the same month as U was born. As many persons younger than X as older than K. No one was born between K and S and both were born in different months. P is just older than M who was not born in the month which has an even number of days. The number of persons older than S is two times the number of persons younger than T. M was born on an even date.

Q:6 Who among the following was born in the same month as S?

1. U
2. D
3. M
5. None of these

Q:7 How many persons were born between W and M?

1. Three
2. Four
3. Six
5. None of these

Q:8 Which of the following information is true about P?

1. P is the third oldest person
2. Not more than three persons were born between P and U
3. P was born on an odd-numbered date.
5. None is true

Q:9 Which of the following combination is true about F?

1. 13-August
2. 20-October
3. 13-September
5. None of these

Q:10 How many persons are younger than U?

1. One
2. Two
3. Four
5. More than four



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Answer Key

1. (3)	2. (2)	3. (3)	4. (1)	5. (4)
6. (1)	7. (3)	8. (3)	9. (4)	10. (3)

Answers and Solutions

Q:1 The correct answer is **Option 3** i.e **Fourth**

1) There is a gap of one hour between the end of a meeting and start of the next meeting.

2) 4th meeting, which is to be scheduled at 3 pm, is for one hour only. (So, the fourth meeting is scheduled from 3 pm to 4 pm)

3) The last meeting for the day is to be scheduled for two hours. (The last meeting will start at 8 pm and end at 10 pm. Also the second last meeting will start 1 hour after the fourth meeting that is at 5pm and end at 1 hour before the start of last meeting that means at 7 pm. So, the duration of second last meeting is 2 hours)

4) The second meeting is for two hours. (It will end at 12 noon so that 3rd meeting will start at 1 pm and the duration of 3rd meeting can be 1 hour that is 1pm to 2 pm. Also, the 2nd meeting will start at 10 am.

Therefore, 1st meeting will start at 8 am and end at 9 am.)

We get all the timing for the meeting and their schedule.

Meetings	Schedule
1st	8 am - 9 am
2nd	10 am - 12 pm
3rd	1 pm - 2 pm
4th	3 pm - 4 pm
5th	5 pm - 7 pm
6th	8 pm - 10 pm

Fourth meeting is scheduled for 3 pm to 4 pm.

Hence, the correct answer is **Fourth**.

Q:2 The correct answer is **Option 2** i.e **12 noon**

1) There is a gap of one hour between the end of a meeting and start of the next meeting.

2) 4th meeting, which is to be scheduled at 3 pm, is for one hour only. (So, the fourth meeting is scheduled from 3 pm to 4 pm)

3) The last meeting for the day is to be scheduled for two hours. (The last meeting will start at 8 pm and end at 10 pm. Also the second last meeting

will start 1 hour after the fourth meeting that is at 5pm and end at 1 hour before the start of last meeting that means at 7 pm. So, the duration of second last meeting is 2 hours)

4) The second meeting is for two hours. (It will end at 12 noon so that 3rd meeting will start at 1 pm and the duration of 3rd meeting can be 1 hour that is 1pm to 2 pm. Also, the 2nd meeting will start at 10 am.

Therefore, 1st meeting will start at 8 am and end at 9 am.)

We get all the timing for the meeting and their schedule.

Meetings	Schedule
1st	8 am - 9 am
2nd	10 am - 12 pm
3rd	1 pm - 2 pm
4th	3 pm - 4 pm
5th	5 pm - 7 pm
6th	8 pm - 10 pm

If the second meeting is reduced one hour then the third meeting will start at 12 noon.

Hence, the correct answer is **12 noon**.

Q:3 The correct answer is **Option 3** i.e **7 pm**

1) There is a gap of one hour between the end of a meeting and start of the next meeting.

2) 4th meeting, which is to be scheduled at 3 pm, is for one hour only. (So, the fourth meeting is scheduled from 3 pm to 4 pm)

3) The last meeting for the day is to be scheduled for two hours. (The last meeting will start at 8 pm and end at 10 pm. Also the second last meeting will start 1 hour after the fourth meeting that is at 5pm and end at 1 hour before the start of last meeting that means at 7 pm. So, the duration of second last meeting is 2 hours)

4) The second meeting is for two hours. (It will end at 12 noon so that 3rd meeting will start at 1 pm and the duration of 3rd meeting can be 1 hour that is 1pm to 2 pm. Also, the 2nd meeting will start at 10 am.

Therefore, 1st meeting will start at 8 am and end at 9 am.)

We get all the timing for the meeting and their schedule.

Meetings	Schedule
1st	8 am - 9 am
2nd	10 am - 12 pm

3rd	1 pm - 2 pm
4th	3 pm - 4 pm
5th	5 pm - 7 pm
6th	8 pm - 10 pm

5th meeting ends at 7 pm.

Hence, the correct answer is **7 pm**.

Q:4 The correct answer is **Option 1** i.e **1 pm, 1 hour**

1) There is a gap of one hour between the end of a meeting and start of the next meeting.

2) 4th meeting, which is to be scheduled at 3 pm, is for one hour only. (So, the fourth meeting is scheduled from 3 pm to 4 pm)

3) The last meeting for the day is to be scheduled for two hours. (The last meeting will start at 8 pm and end at 10 pm. Also the second last meeting will start 1 hour after the fourth meeting that is at 5pm and end at 1 hour before the start of last meeting that means at 7 pm. So, the duration of second last meeting is 2 hours)

4) The second meeting is for two hours. (It will end at 12 noon so that 3rd meeting will start at 1 pm and the duration of 3rd meeting can be 1 hour that is 1pm to 2 pm. Also, the 2nd meeting will start at 10 am.

Therefore, 1st meeting will start at 8 am and end at 9 am.)

We get all the timing for the meeting and their schedule.

Meetings	Schedule
1st	8 am - 9 am
2nd	10 am - 12 pm
3rd	1 pm - 2 pm
4th	3 pm - 4 pm
5th	5 pm - 7 pm
6th	8 pm - 10 pm

Hence, the correct answer is **1 pm, 1 hour**.

Q:5 The correct answer is **Option 4** i.e **Three**

1) There is a gap of one hour between the end of a meeting and start of the next meeting.

2) 4th meeting, which is to be scheduled at 3 pm, is for one hour only. (So, the fourth meeting is

scheduled from 3 pm to 4 pm)

3) The last meeting for the day is to be scheduled for two hours. (The last meeting will start at 8 pm and end at 10 pm. Also the second last meeting will start 1 hour after the fourth meeting that is at 5pm and end at 1 hour before the start of last meeting that means at 7 pm. So, the duration of second last meeting is 2 hours)

4) The second meeting is for two hours. (It will end at 12 noon so that 3rd meeting will start at 1 pm and the duration of 3rd meeting can be 1 hour that is 1pm to 2 pm. Also, the 2nd meeting will start at 10 am.

Therefore, 1st meeting will start at 8 am and end at 9 am.)

We get all the timing for the meeting and their schedule.

Meetings	Schedule
1st	8 am - 9 am
2nd	10 am - 12 pm
3rd	1 pm - 2 pm
4th	3 pm - 4 pm
5th	5 pm - 7 pm
6th	8 pm - 10 pm

Hence, the correct answer is **Three**.

Q:6 The correct answer is **Option 1** i.e. **U**

1. D was born on an odd number date of the month which has an even number of days.

2. Three persons were born between D and X.

3. As many persons younger than X as older than K.

4. No one was born between K and S and both was born in different months.

5. The number of persons older than S is two times of the number of persons younger than T.

From these conditions, there are two possibilities-

		Case 1	Case 2
Months	Dates	Person	Person
August	13		
	20		
September	13	D	X
	20	K	

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October	13	S	
	20		T
November	13	X	D
	20	T	K
December	13		S
	20		

6. P is just older than M who was not born in the month which has an even number of days. M was born on an even date.

7. Not more than one person was born between M and K. (From these conditions case 2 will be eliminated).

8. W is older than F who was not born in the same month as U was born.

The final arrangement is-

Months	Dates	Person
August	13	P
	20	M
September	13	D
	20	K
October	13	S
	20	U

November	13	X
	20	T
December	13	W
	20	F

From the above arrangement, U and S were born in the same month.

Hence the correct answer is **U**.

Q:7 The correct answer is **Option 3** i.e. **Six**

1. D was born on an odd number date of the month which has an even number of days.

2. Three persons were born between D and X.

3. As many persons younger than X as older than

K.

4. No one was born between K and S and both was born in different months.

5. The number of persons older than S is two times of the number of persons younger than T.

From these conditions, there are two possibilities-

		Case 1	Case 2
Months	Dates	Person	Person
August	13		
	20		
September	13	D	X
	20	K	
October	13	S	
	20		T
November	13	X	D
	20	T	K
December	13		S
	20		

6. P is just older than M who was not born in the month which has an even number of days. M was born on an even date.

7. Not more than one person was born between M and K. (From these conditions case 2 will be eliminated).

8. W is older than F who was not born in the same month as U was born.

The final arrangement is-

Months	Dates	Person
August	13	P
	20	M
September	13	D
	20	K
October	13	S
	20	U

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November	13	X
	20	T
December	13	W
	20	F

From the above arrangement, six persons were born between W and M.

Hence the correct answer is **Six**.

Q:8 The correct answer is **Option 3** i.e. **P was born on an odd-numbered date**

1. D was born on an odd number date of the month which has an even number of days.
2. Three persons were born between D and X.
3. As many persons younger than X as older than K.
4. No one was born between K and S and both was born in different months.
5. The number of persons older than S is two times of the number of persons younger than T.

From these conditions, there are two possibilities-

		Case 1	Case 2
Months	Dates	Person	Person
August	13		
	20		
September	13	D	X
	20	K	
October	13	S	
	20		T
November	13	X	D
	20	T	K
December	13		S
	20		

6. P is just older than M who was not born in the month which has an even number of days. M was born on an even date.

7. Not more than one person was born between M

and K. (From these conditions case 2 will be eliminated).

8. W is older than F who was not born in the same month as U was born.

The final arrangement is-

Months	Dates	Person
August	13	P
	20	M
September	13	D
	20	K
October	13	S
	20	U
November	13	X
	20	T
December	13	W
	20	F

From the above arrangement, P was born on an odd-numbered date is true.

Hence the correct answer is **P was born on an odd-numbered date**.

Q:9 The correct answer is **Option 4** i.e. **20-December**

1. D was born on an odd number date of the month which has an even number of days.
2. Three persons were born between D and X.
3. As many persons younger than X as older than K.
4. No one was born between K and S and both was born in different months.
5. The number of persons older than S is two times of the number of persons younger than T.

From these conditions, there are two possibilities-

		Case 1	Case 2
Months	Dates	Person	Person
August	13		
	20		

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September	13	D	X
	20	K	
October	13	S	
	20		T
November	13	X	D
	20	T	K
December	13		S
	20		

6. P is just older than M who was not born in the month which has an even number of days. M was born on an even date.

7. Not more than one person was born between M and K. (From these conditions case 2 will be eliminated).

8. W is older than F who was not born in the same month as U was born.

The final arrangement is-

Months	Dates	Person
August	13	P
	20	M
September	13	D
	20	K
October	13	S
	20	U
November	13	X
	20	T
December	13	W
	20	F

From the above arrangement, F was born on 20th December.

Hence the correct answer is **20-December**.

Q:10 The correct answer is **Option 3** i.e. **Four**

1. D was born on an odd number date of the month

which has an even number of days.

2. Three persons were born between D and X.

3. As many persons younger than X as older than K.

4. No one was born between K and S and both was born in different months.

5. The number of persons older than S is two times of the number of persons younger than T.

From these conditions, there are two possibilities-

		Case 1	Case 2
Months	Dates	Person	Person
August	13		
	20		
September	13	D	X
	20	K	
October	13	S	
	20		T
November	13	X	D
	20	T	K
December	13		S
	20		

6. P is just older than M who was not born in the month which has an even number of days. M was born on an even date.

7. Not more than one person was born between M and K. (From these conditions case 2 will be eliminated).

8. W is older than F who was not born in the same month as U was born.

The final arrangement is-

Months	Dates	Person
August	13	P
	20	M
September	13	D
	20	K



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October	13	S
	20	U
November	13	X
	20	T
December	13	W
	20	F

From the above arrangement, Four persons are younger than U.

Hence the correct answer is **Four**.

