



September Sprint for CAT 2025

Class 29

Selection

Cubes

Binary Logic



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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths

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Daily 30 questions
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Answers on the next day

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Pause the video, solve the set, and then look at the solution!



Six tourists Andrew, Beth, Charles, Daisy, Evan, and Fiona, are to be assigned to four guides: Ganesh, Harsh, Indu, and Jaspreet. Each tourist is assigned to exactly one guide, with at least one tourist assigned to each guide. Each tourist speaks exactly one of the languages spoken by his or her guide and speaks no other language.

- Ganesh speaks only French.
- Harsh speaks only Turkish and Spanish.
- Indu speaks only French and Turkish.
- Jaspreet speaks only Spanish and Russian.

The following rules govern the assignment of the tourists to the guides:

- At least Andrew and Beth are assigned to Indu.
- At least Daisy is assigned to Jaspreet.
- If Charles is assigned to Harsh, then Evan speaks French.

Which one of the following must be true?

- A. Harsh is assigned fewer than two of the tourists
- B. Indu is assigned exactly two of the tourists
- C. Ganesh is assigned exactly one of the tourists
- D. Jaspreet is assigned fewer than three of the tourists



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The following rules govern the assignment of the tourists to the guides:

- At least Andrew and Beth are assigned to Indu.
- At least Daisy is assigned to Jaspreet.
- If Charles is assigned to Harsh, then Evan speaks French.

If Daisy and Fiona speak the same language as each other, what is the maximum number of tourists who could speak Turkish?

Six tourists Andrew, Beth, Charles, Daisy, Evan, and Fiona, are to be assigned to four guides: Ganesh, Harsh, Indu, and Jaspreet. Each tourist is assigned to exactly one guide, with at least one tourist assigned to each guide. Each tourist speaks exactly one of the languages spoken by his or her guide and speaks no other language.

- Ganesh speaks only French.
- Harsh speaks only Turkish and Spanish.
- Indu speaks only French and Turkish.
- Jaspreet speaks only Spanish and Russian.

The following rules govern the assignment of the tourists to the guides:

- At least Andrew and Beth are assigned to Indu.
- At least Daisy is assigned to Jaspreet.
- If Charles is assigned to Harsh, then Evan speaks French.

If exactly two tourists are assigned to Harsh, then which one of the following could be true?

- A. Evan speaks French and Charles speaks Spanish
- B. Fiona speaks French and Evan speaks French
- C. Fiona speaks French and Charles speaks Turkish
- D. Evan speaks Spanish and Charles speaks Spanish

Six tourists Andrew, Beth, Charles, Daisy, Evan, and Fiona, are to be assigned to four guides: Ganesh, Harsh, Indu, and Jaspreet. Each tourist is assigned to exactly one guide, with at least one tourist assigned to each guide. Each tourist speaks exactly one of the languages spoken by his or her guide and speaks no other language.

- Ganesh speaks only French.
- Harsh speaks only Turkish and Spanish.
- Indu speaks only French and Turkish.
- Jaspreet speaks only Spanish and Russian.

The following rules govern the assignment of the tourists to the guides:

- At least Andrew and Beth are assigned to Indu.
- At least Daisy is assigned to Jaspreet.
- If Charles is assigned to Harsh, then Evan speaks French.

If Andrew, Beth, Evan, and Fiona all speak the same language as each other, then which one of the following could be true?

- A. Charles speaks Russian
- B. Exactly two of the tourists speak Turkish
- C. Charles speaks French
- D. Exactly two of the tourists speak Russian



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SRCC GBO 2026: 5 Mocks

NMAT – 15
SNAP – 20
XAT – 10
CMAT – 10
MAHCET – 20
CUET PG – 10
MICAT – 5
XGMT – 5
SRCC GBO - 5

CAT and OMETs Mocks by MBA Karo



The chief minister of a state has to select 5 ministers in his cabinet out of Jatin, Kunal, Laxman, Mukesh, Raj, Suraj, Tarak, and Uday. The age (in years) of each of these ministers is different between 36, 38, 39, 45, 48, 54, 57, and 59 years. From the eight ministers, the CM has to select at least one minister in his thirties, at least one minister in his forties, and at least two ministers in their fifties. The CM must ensure the following additional conditions are also met:

- If Laxman is in the cabinet, Mukesh must not be in the cabinet
- Suraj, who is in his fifties, will be in the cabinet only if Mukesh is in the cabinet.
- Raj is six years older than Laxman and if one of them is in the cabinet, the other must be in the cabinet.
- Kunal, who is in his thirties, will be in the cabinet only if Uday is not in the cabinet.
- Suraj is younger than Uday and Uday will be in the cabinet only if Jatin is in the cabinet.
- Tarak is three years younger than Jatin.
- If Raj is in the cabinet, Uday must be in the cabinet.

In how many ways can the cabinet be selected?

What is Mukesh's age (in years)?

Who among the following can never be in the cabinet?

A. Kunal B. Laxman C. Suraj D. Tarak

If the second oldest person is in the cabinet, who among them cannot be in the cabinet?

A. Jatin B. Mukesh C. Raj D. Uday



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Each of the six friends namely Ankit, Lalit, Tony, Edwin, Rizwan and Sukhbir took one ball from a box containing 30 balls of six different colours Red, Blue, Green, Yellow, Black, and White. Also, the number of balls of each colour is the same.

Following is the detail of three statements made by each of the persons:

Person	Statement – I	Statement – II	Statement – III
Ankit	Lalit took a blue ball	Tony took a red ball	Lalit took the same-coloured ball as Edwin
Lalit	Rizwan did not take a yellow ball	Edwin took a green ball	Sukhbir took a black ball
Tony	Edwin took a white ball	Sukhbir took a black ball	Rizwan did not take a red ball
Edwin	Ankit took a blue ball	Sukhbir did not take a red ball	Lalit took a green ball
Rizwan	I took a green ball	Tony took a yellow ball	Ankit took a yellow ball
Sukhbir	Tony did not take a white ball	Edwin did not take a blue ball	Tony took a white ball

Exactly one of the statements made by each person is true and only one of the statements made about Lalit is correct. Also, balls of two particular colours were not taken by any of the people.

What is the colour of the ball taken by Sukhbir?
 A. Green B. Blue C. Yellow D. Red

For how many of the mentioned persons, the exact colour of the balls taken by them can be determined?

Which two friends surely took balls of the same colour?
 A. Sukhbir & Tony B. Ankit & Edwin C. Ankit & Rizwan D. None of these

What is the colour of the ball taken by Edwin?
 A. Green B. Blue C. Red D. Yellow

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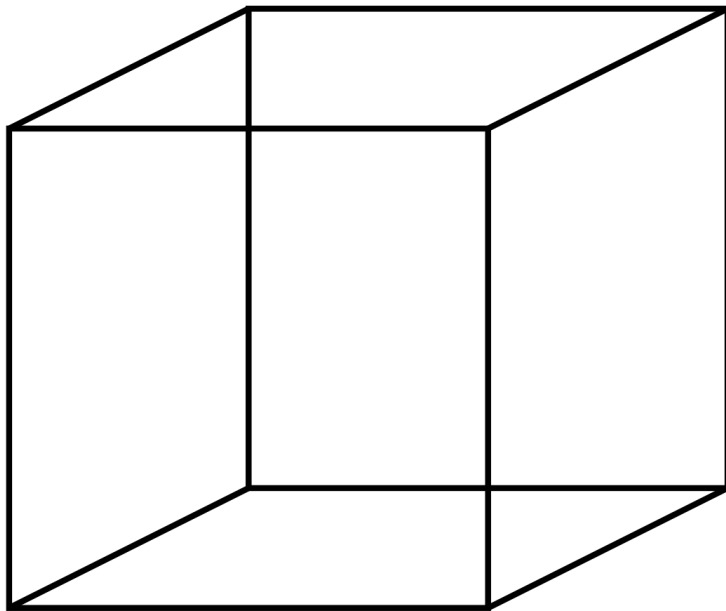
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The faces of a cuboid are painted with three different colours – red, blue, and green such that each colour is painted on at least one face. Now the cuboid is cut into 120 equal pieces by making the least possible number of cuts.

What is the least and the highest possible number of smaller pieces with 3 colours painted on them, respectively?

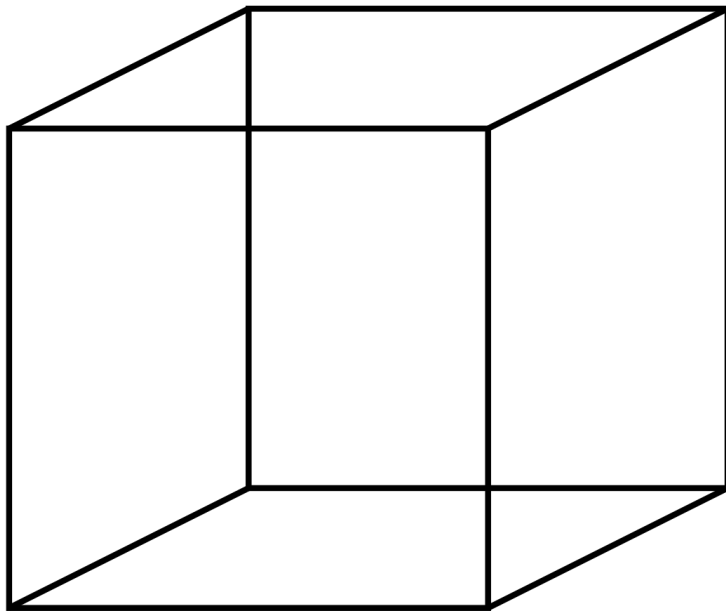
- A. 0, 4 B. 2, 4 C. 0, 8 D. 2, 8



The faces of a cuboid are painted with three different colours – red, blue, and green such that each colour is painted on at least one face. Now the cuboid is cut into 120 equal pieces by making the least possible number of cuts.

What is the maximum possible number of smaller pieces that have red and blue colours painted on them?

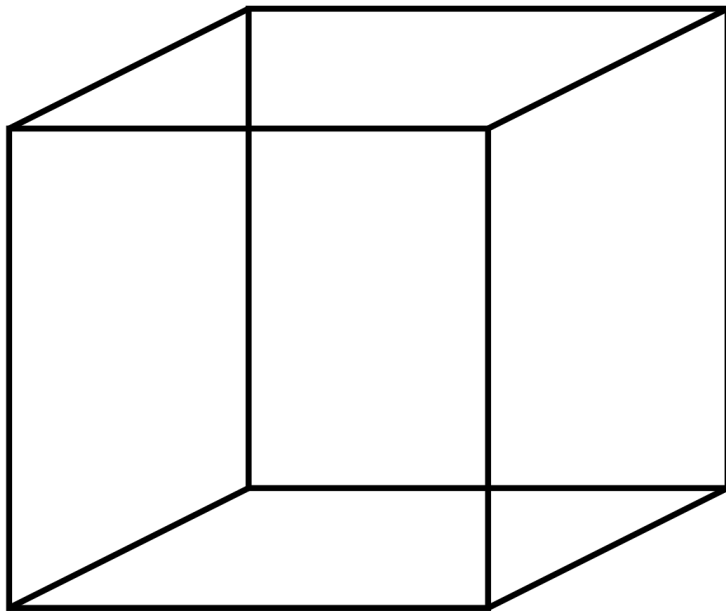
- A. 28 B. 30 C. 32 D. 34



The faces of a cuboid are painted with three different colours – red, blue, and green such that each colour is painted on at least one face. Now the cuboid is cut into 120 equal pieces by making the least possible number of cuts.

What is the maximum possible number of smaller pieces that have only red colour on them?

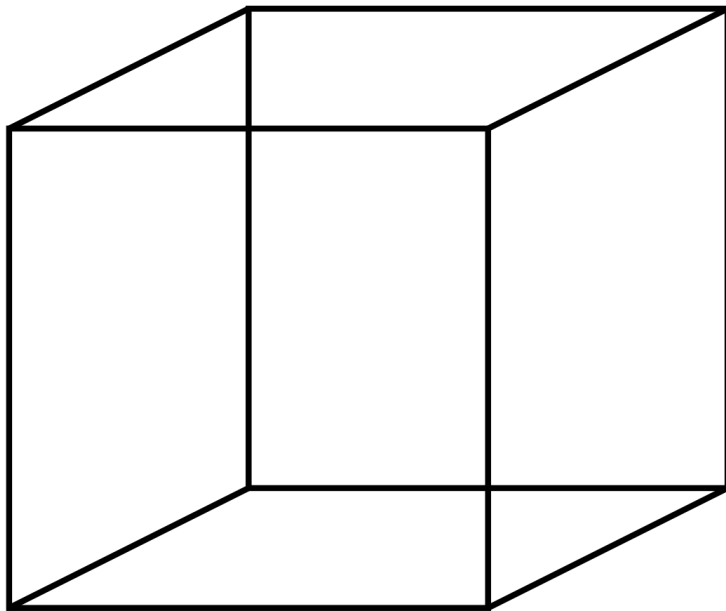
- A. 40 B. 44 C. 48 D. 56



The faces of a cuboid are painted with three different colours – red, blue, and green such that each colour is painted on at least one face. Now the cuboid is cut into 120 equal pieces by making the least possible number of cuts.

What is the maximum possible number of smaller pieces that have neither blue nor red colour on any face?

- A. 80 B. 72 C. 64 D. 56



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The faces of a cuboid are painted with three different colours – red, blue, and green such that each colour is painted on at least one face. Now the cuboid is cut into 120 equal pieces by making the least possible number of cuts.

If 38 pieces have only one face painted, which is blue, how many pieces have only red and green colours on their surface?

**Answer in
Comments**



**Answer in
Comments**

Three friends – Xavier, Yogesh, and Zaheer – went on a trip. One of them carried gloves and another carried goggles. One of them is a liar, one is a truth teller and one is an alternator. They made the following statements:

Xavier: I have the goggles. Yogesh has the gloves.

Yogesh: I have the goggles. Zaheer has the gloves.

Zaheer: I have the gloves. Xavier has the goggles.

Who has the gloves?

- A. Xavier
- B. Yogesh
- C. Zaheer
- D. Cannot be determined

A cube of dimension $8\text{ cm} \times 8\text{ cm} \times 8\text{ cm}$ is cut into smaller cubes of side lengths 3 cm, 2 cm, and 1 cm such that there is at least 1 cube of each type. What is the minimum number of cubes cut?

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Thank
You

