

September Sprint for CAT 2025

Class 15

Venn Diagram





Follow us on



MBA Karo



mbakaro



MBA Karo!



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

Preparing for MBA exams for 2025-26?



- Recorded concept videos
- Solved questions – basic to advanced
- Topic wise Practice sheets
- Doubt Resolution Group
- Doubt session live classes
- In VA, grammar and vocab also covered
- In LR, OMET topics covered

Price: **15000/-**

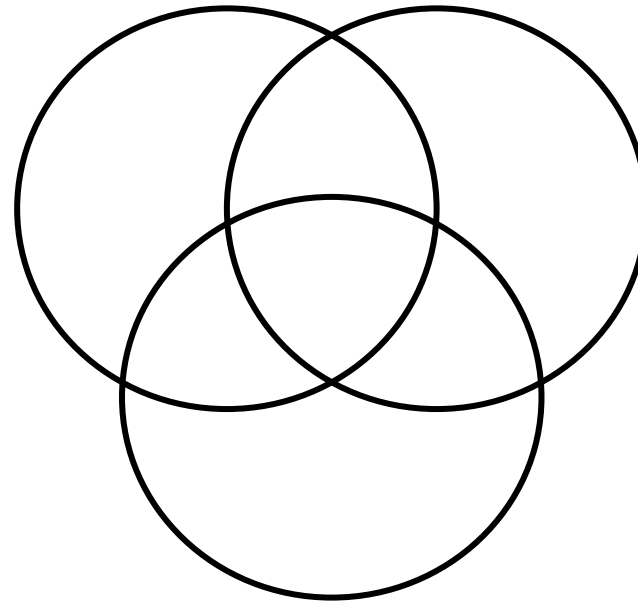
Section-wise modules are also available

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



The students of an institute enrolled in three different programming languages: Java, Python, and HTML. A student is enrolled in none, one, or multiple languages. The below information is known.

- The number of students enrolled in only Java is $\frac{3}{4}$ th of the number of students enrolled in only HTML.
- The number of students enrolled in only Python is 40% more than the number of students enrolled in Python and Java but not HTML.
- The number of students enrolled in all three languages is twice the number of students enrolled in Python and HTML but not Java.
- The number of students who enrolled in both HTML and Java is 20% more than the number of students enrolled in only Java.
- The number of students enrolled in only Java is three times the number of students enrolled in Python and Java but not HTML.
- The number of students who enrolled in both HTML and Python is the average of the number of students enrolled only for HTML and only for Python.
- 21 students did not enroll for any of the languages.
- $\frac{1}{4}$ th of the total students enrolled in only HTML.



What is the total number of students in the institute?

How many students enrolled only for Python?

How many students enrolled in HTML?

How many students enrolled in both Java and Python?

How many students enrolled in at most two languages?



Like



Comment



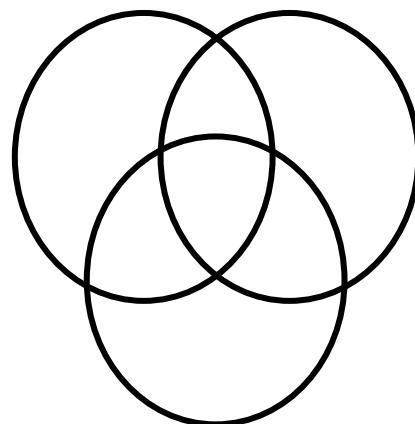
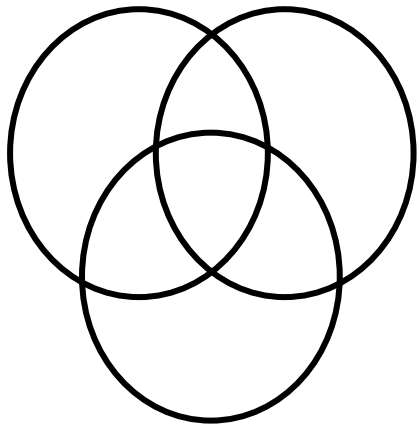
Share

SUBSCRIBE 



In an Avenger fan club that has 3000 kids, a survey was conducted for their liking of Captain America, Thor, or Iron Man. The ratio of boys to girls in the club is 5:3. On the day of the survey, 75 boys and 75 girls were absent. The result obtained from the remaining kids were:

- Each kid liked at least one superhero.
- 50% of the boys liked Captain America while 50% of the girls liked Thor.
- 3% of the boys liked all three superheroes while this percentage was 4% among girls.
- The number of boys liking only Thor was 50% more than the number of boys liking only Iron Man.
- The number of girls liking only Captain America was the same as the number of girls liking only Iron Man.
- The percentage of boys liking only Captain America and Thor was 7%, only Thor and Iron Man was 5%, and only Iron Man and Captain America was 9%. The respective percentages for girls were 8%, 6%, and 6% respectively.



What is the ratio of boys liking Iron Man to those liking Thor?

- A. 2:3 B. 5:6 C. 7:10 D. 21:25

What is the number of girls liking Iron Man?

What is the difference between the number of only Captain America fans and only Thor fans?

What percent of the users surveyed like all three superheroes?

- A. 3.37% B. 3.20% C. 3.50% D. 3.44%



CAT 2025 Mock Tests

15 Full- Length Mocks
10 VARC Sectionals (Text Solutions)
10 DILR Sectionals (Video Solutions)
10 QA Sectionals (Video Solutions)



⌚ Expires On Nov 30, 2025

₹ 1,500



CAT and OMETs Mock Test Bundle

All Mocks Based on the Latest Exam Pattern

⌚ Expires On Apr 30, 2026

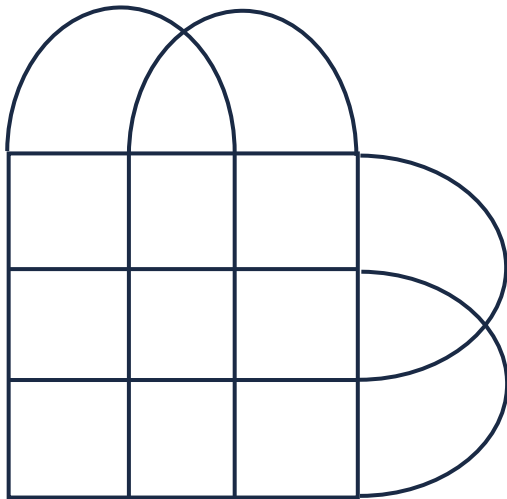
₹ 6,000

CAT 2025: 15 mocks + 10 sectionals each
NMAT 2025: 15 Mocks
SNAP 2025: 20 Mocks
XAT 2026: 5 Mocks
CMAT 2026: 10 Mocks
MAHCET 2026: 10 Mocks
CUET PG 2026: 10 Mocks
MICAT 2025: 5 Mocks
XGMT 2026: 5 Mocks
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

A survey was conducted among 250 students to know which sport they liked to play cricket and tennis and which sportsman they liked the most between Sachin and Roger. It was found that each of the students who liked to play both cricket and tennis liked at least one of the two sportsmen. The number of students who like both sports and both sportsmen is the same as that who like both sportsmen but neither of the two sports. Of the students who like tennis but not cricket, none of the students like Sachin. The number of students who like cricket but neither tennis nor any of the two sportsmen is the same as the number of students who like Sachin but neither Roger nor any of the two sports. The number of students who like tennis, but neither cricket nor any of the two sportsmen is 17. The number of students who like both sportsmen is 52. The number of students who like both sportsmen but none of the two sports is 18. The number of students who like Sachin but not Roger is the same as the number of students who like cricket but not tennis which in turn is 77. The number of students who do not like any of the two sportsmen is 32. The number of students who like Roger and both sports but not Sachin is 23 and the total number of students who like both sports is 77. The number of students who like none of the sports is 60 and those who like Roger but not Sachin is 89.





A survey was conducted among 250 students to know which sport they liked to play cricket and tennis and which sportsman they liked the most between Sachin and Roger. It was found that each of the students who liked to play both cricket and tennis liked at least one of the two sportsmen. The number of students who like both sports and both sportsmen is the same as that who like both sportsmen but neither of the two sports. Of the students who like tennis but not cricket, none of the students like Sachin. The number of students who like cricket but neither tennis nor any of the two sportsmen is the same as the number of students who like Sachin but neither Roger nor any of the two sports. The number of students who like tennis, but neither cricket nor any of the two sportsmen is 17. The number of students who like both sportsmen is 52. The number of students who like both sportsmen but none of the two sports is 18. The number of students who like Sachin but not Roger is the same as the number of students who like cricket but not tennis which in turn is 77. The number of students who do not like any of the two sportsmen is 32. The number of students who like Roger and both sports but not Sachin is 23 and the total number of students who like both sports is 77. The number of students who like none of the sports is 60 and those who like Roger but not Sachin is 89.

How many students like Roger and cricket but neither tennis nor Sachin?

How many students like tennis but not cricket?

How many students like cricket?

How many students do not like Sachin?

How many students like both sportsmen but only one of the sports?



Like



Comment



Share

SUBSCRIBE 



A cricket academy had called 150 fast bowlers for selection. The academy was looking for bowlers who were experts at pace, swing, and yorkers. The bowlers with different skills were:

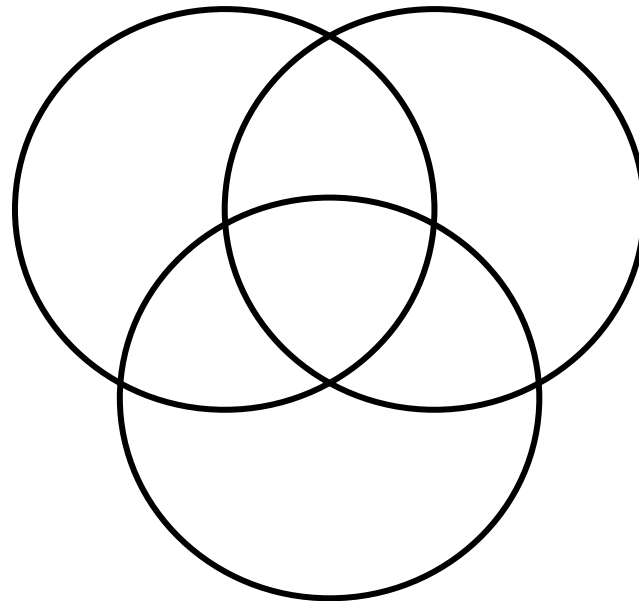
Pace and yorkers but not swing = 9

Swing and yorkers but not pace = 12

Pace or swing but not yorkers = 107

Each bowler had at least one of the three skills that the academy was looking for. The academy could find only one bowler with all three skills. It was also found that, for any skill, the number of bowlers who had that skill alone did not exceed one-third of the total number of bowlers called.

What is the minimum number of bowlers who have at least two of the three skills?



A cricket academy had called 150 fast bowlers for selection. The academy was looking for bowlers who were experts at pace, swing, and yorkers. The bowlers with different skills were:

Pace and yorkers but not swing = 9

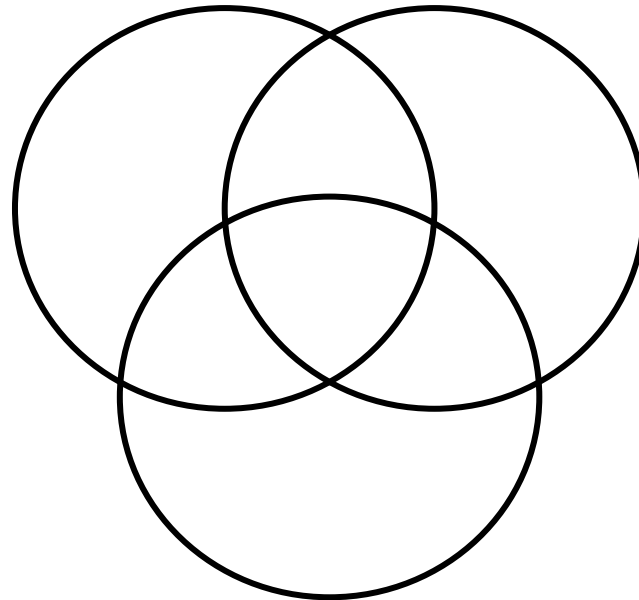
Swing and yorkers but not pace = 12

Pace or swing but not yorkers = 107

Each bowler had at least one of the three skills that the academy was looking for. The academy could find only one bowler with all three skills. It was also found that, for any skill, the number of bowlers who had that skill alone did not exceed one-third of the total number of bowlers called.

If 57 bowlers were experts at swing but not yorkers, then at most what percentage of the bowlers had more than one skill?

- A. 40.67%
- B. 48%
- C. 52.67%
- D. 54.67%



A cricket academy had called 150 fast bowlers for selection. The academy was looking for bowlers who were experts at pace, swing, and yorkers. The bowlers with different skills were:

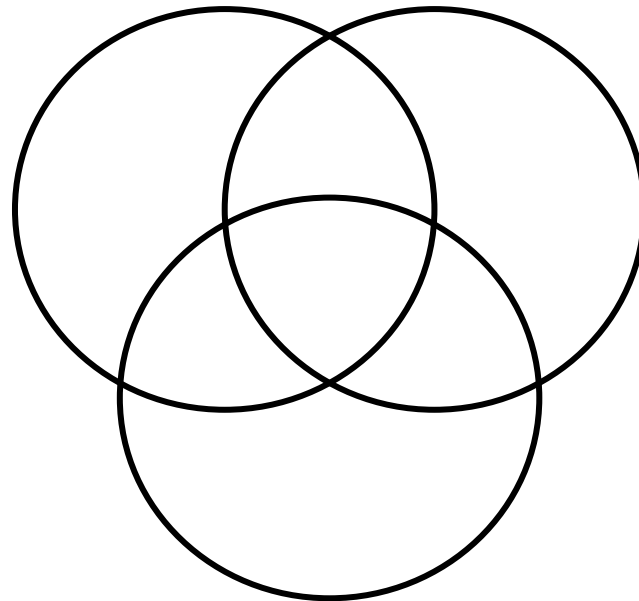
Pace and yorkers but not swing = 9

Swing and yorkers but not pace = 12

Pace or swing but not yorkers = 107

Each bowler had at least one of the three skills that the academy was looking for. The academy could find only one bowler with all three skills. It was also found that, for any skill, the number of bowlers who had that skill alone did not exceed one-third of the total number of bowlers called.

If exactly half of the bowlers who were experts at pace were also experts at swing and exactly half of the bowlers who were experts at swing were also experts at pace, then how many bowlers were experts at only pace?



A cricket academy had called 150 fast bowlers for selection. The academy was looking for bowlers who were experts at pace, swing, and yorkers. The bowlers with different skills were:

Pace and yorkers but not swing = 9

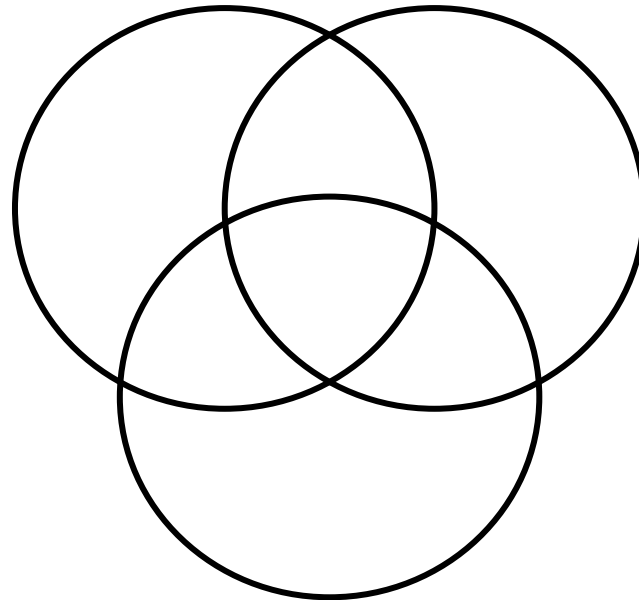
Swing and yorkers but not pace = 12

Pace or swing but not yorkers = 107

Each bowler had at least one of the three skills that the academy was looking for. The academy could find only one bowler with all three skills. It was also found that, for any skill, the number of bowlers who had that skill alone did not exceed one-third of the total number of bowlers called.

If the number of bowlers who were experts at pace is twice that of those who were experts at minimum two skills, then at least how many bowlers were experts at only swing?

- A. 37
- B. 41
- C. 43
- D. 47



A cricket academy had called 150 fast bowlers for selection. The academy was looking for bowlers who were experts at pace, swing, and yorkers. The bowlers with different skills were:

Pace and yorkers but not swing = 9

Swing and yorkers but not pace = 12

Pace or swing but not yorkers = 107

Each bowler had at least one of the three skills that the academy was looking for. The academy could find only one bowler with all three skills. It was also found that, for any skill, the number of bowlers who had that skill alone did not exceed one-third of the total number of bowlers called.

If the number of bowlers who were experts at swing is less than those who were experts at pace, then at least how many bowlers were experts at swing as well as pace?

Answer in Comments

Preparing for MBA exams for 2025-26?



- Recorded concept videos
- Solved questions – basic to advanced
- Topic wise Practice sheets
- Doubt Resolution Group
- Doubt session live classes
- In VA, grammar and vocab also covered
- In LR, OMET topics covered

Price: **15000/-**

Section-wise modules are also available

Get these PDFs on

Our Telegram Group

<https://t.me/MBAKaro>



Thank
You

