September Sprint for CAT 2025

Class 23

Mensuration

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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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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

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

A sheet of paper in a square shape is rolled along its length to make it a cylinder. What is the ratio of the base radius to the side of the square?

A. 5/2π
B. 3/2π
C. 2/π
D. 1/2π

The combined volume of a cylinder and a cone is 2190π cm^2. The radius of both is the same, which is 10 cm. If the height of the cone is 15 cm, find the ratio of the height of the cylinder to the height of the cone.

A. 191:135
B. 173:150
C. 169:150
D. 86:75

The radius of a cone is 10 cm. The ratio of the curved surface area and the total surface area of the cone is 4:5. Find the slant height of the cone.

A. 30 cm
B. 40 cm
C. 35 cm
D. 42 cm

A solid cone of maximum volume is cut out from a solid cylinder of radius 21 cm and height 15 cm, what is the volume (in cm^3) of the remaining solid portion?

A. 11260
B. 13860
C. 13420
D. 14280

Water flows into a tank which is 200 m long and 150 m wide, through a pipe of cross-section 0.3 m × 0.2 m at 20 km/hour. Then the time (in hours) for the water level in the tank to reach 8 m is

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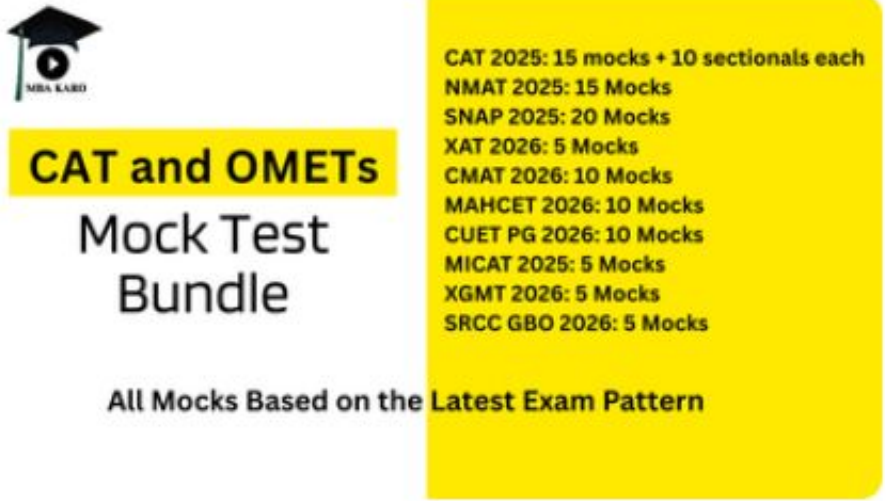
Expires On Nov 30, 2025

₹ 1,500



Expires On Apr 30, 2026

₹ 6,000

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

Two spherical iron balls each of diameters 6 cm are immersed in the water contained in a cylindrical vessel of radius 6 cm. The level of the water in the vessel will be raised by

A. 1 cm
B. 2 cm
C. 3 cm
D. 4 cm

P and Q are running on the circumference of two concentric circles; the larger circle's radius is half of the circumference of the inner circle. P runs on the larger and Q on the smaller circle and both complete a round at the same time. If both of them run on the larger circle P will beat Q by 75 m when they run in the same direction, what is the circumference of the larger circle?

A. 154 m
B. 168 m
C. 110 m
D. 132 m

The sum of the perimeters of an equilateral triangle and a rectangle is 90 cm. The area, T, of the triangle and the area, R, of the rectangle, both in sq cm, satisfy the relationship $R = T^2$. If the sides of the rectangle are in the ratio 1:3, then the length, in cm, of the longer side of the rectangle, is

A tent has a cylindrical base and a conical top. The height of the tent is 61 m and that of the cylindrical portion is 40 m the radius of the tent is 28 m. What is the total area of cloth required to make the tent?

A. 10120 m^2
B. 12540 m^2
C. 10890 m^2
D. 9750 m^2

A solid is in the form of a right circular cylinder with hemispherical ends. The total length of the solid is 35 cm. The diameter of the cylinder is 1/4 of its height. The surface area of the solid (in cm^2) is

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A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m^3) is:

A. 6480
B. 5760
C. 5120
D. 4800

A hollow iron pipe is 21 cm long and its exterior diameter is 8 cm. If the thickness of the pipe is 1 cm and the iron weighs 8 g/cm cube, then the weight of the pipe is (Take π=22/7)

A. 3.696 kg
B. 1.848 kg
C. 18.48 kg
D. 36.96 kg

The radius of a cylindrical tank is 3 m less than the radius of a conical tank. The time taken to fill water in the cylindrical and conical tank at 54 m^3 per second and 66 m^3 per second is 297 seconds and 144 seconds, respectively. If the height of the cylindrical tank is the same as the height of the conical tank, find the height of each tank.

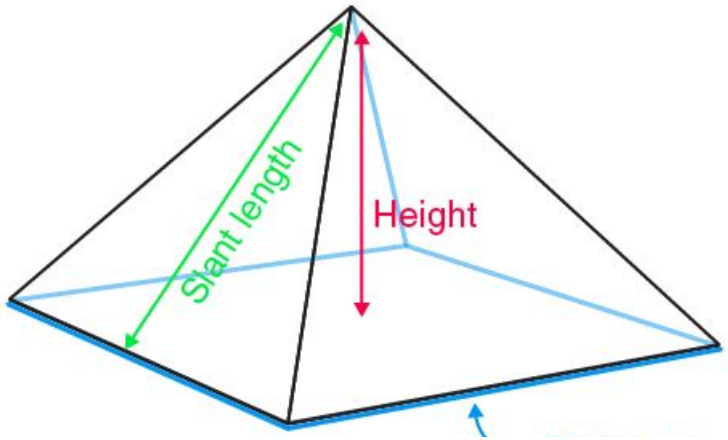
A. 31.5 m
B. 63 m
C. 52.5 m
D. 42 m

The base of a right prism is a trapezium. The lengths of the parallel sides are 7 cm and 15 cm and the distance between the parallel sides is 8 cm. If the volume of the prism is 1056 cm^3 then the height of the prism is

A. 14 cm
B. 12 cm
C. 11 cm
D. 8 cm

A square pyramid of height 5 m is attached to the top face of the cubical box of side 8 meters, such that the pyramid exactly covers the top face of the box. Find the visible surface area of the combined structure excluding the base of the box.

A. 4 (64 + √41) m^2
B. 2 (256 + √39) m^2
C. 16 (16 + √41) m^2
D. 4 (32 + √39) m^2



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Our Telegram Group

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Corners are cut off from an equilateral triangle T to produce a regular hexagon H. Then, the ratio of the area of H to the area of T is

A. 5:6 B. 3:4 C. 2:3 D. 4:5

A rectangular sheet of aluminum is rolled to make the curved surface of a can. The volume of the can is 770 cm^3 and the cost of the aluminum sheet is Rs 330. If the rate of aluminium is 75 paisa per cm^2 what is the diameter of the can?

A. 3.5 cm B. 10.5 cm C. 7 cm D. 14 cm

A gold ingot in the shape of a cylinder is melted and the resulting molten metal is molded into a few identical conical ingots. If the height of each cone is half the height of the original cylinder and the area of the circular base of each cone is one fifth that of the circular base of the cylinder, then how many conical ingots can be made?

A cylindrical vessel of radius 4 cm contains water. A solid sphere of radius 3 cm is lowered into the water until it is completely immersed. The water level in the vessel will rise by:

A. 1.75 cm B. 2 cm C. 1.5 cm D. 2.25 cm

A prism has a regular hexagonal base with a side of 12 cm. If the total surface area of the prism is $1152\sqrt{3}$ cm^2, then what is the height of the prism?

A. $6\sqrt{3}$ cm B. $8\sqrt{3}$ cm C. $9\sqrt{3}$ cm D. $10\sqrt{3}$ cm

Answer in Comments

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