



Hi everyone!

Mensuration is one of the most important and frequently tested topics in the Quantitative Aptitude section of the **SSC** CGL Tier 1 exam. It deals with the measurement of various two-dimensional figures like squares, rectangles, circles, triangles, and more. A strong grasp of formulas and basic concepts in this topic can help you solve questions quickly and accurately in the exam.

Let's start with the fundamentals and gradually move on to solving standard and exam-oriented problems!



Practice Questions on Mensuration

Let's begin with some exam-level practice questions to boost your preparation!

Q1. The total surface area of a cylinder is 704 cm^2 and the ratio of height to base radius is $3 : 4$. What is the volume of the cylinder?

Options:

1. $384\pi \text{ cm}^3$
2. $243\pi \text{ cm}^3$
3. $518\pi \text{ cm}^3$
4. $423\pi \text{ cm}^3$

(Difficulty: 2, Time: 15 sec)

An easy starter – did you get it right?

Q2. If the side of a rhombus is 10 cm and the shorter diagonal is 12 cm, what is its area?

Options:



title

1. 96 cm^2
2. 108 cm^2
3. 80 cm^2
4. 144 cm^2

(Difficulty: 3, Time: 20 sec)

Quick calculation and understanding of diagonals can help!

Q3. What is the volume of a hexagonal prism with base length 5 cm and height $4\sqrt{3}$ cm?

Options:

1. 360 cm^3
2. 420 cm^3
3. 450 cm^3
4. 480 cm^3

(Difficulty: 2, Time: 15 sec)

A direct application of formula – how fast are you?

Q4. A circular park has an area of 5544 m^2 . There's a 7 m wide running track along the inside. If paving costs Rs $12/\text{m}^2$, find the total cost of paving.

Options:

1. Rs 12,500
2. Rs 24,520
3. Rs 18,540
4. Rs 20,328

(Difficulty: 3, Time: 20 sec)

One of the trickier ones – how's your speed with composite shapes?

Q5. Amal has a toy shaped like a regular tetrahedron. The total surface area is 800 cm^2 , and the height of each face is 20 cm. Find the base length of one face.

Options:

1. 20 cm
2. 10 cm
3. 15 cm
4. 21 cm



title

(Difficulty: 3, Time: 20 sec)

Midway through – how are you doing so far?

Q6. Find the volume of a square-based pyramid with base area 225 cm^2 and height 11 cm.

Options:

1. 965 cm^3
2. 741 cm^3
3. 825 cm^3
4. 786 cm^3

(Difficulty: 2, Time: 15 sec)

Keep your formulas handy!

Q7. The ratio of curved surface area to total surface area of a cylinder is 11 : 18. If the area of one circular end is 616 cm^2 , find its volume.

Options:

1. $11,576 \text{ cm}^3$
2. $13,552 \text{ cm}^3$
3. $12,785 \text{ cm}^3$
4. $16,415 \text{ cm}^3$

(Difficulty: 3, Time: 20 sec)

Use ratios smartly to save time.

Q8. The length and breadth of a rectangle are in a ratio of 2 : 1. If the perimeter is 48 cm, what is its area?

Options:

1. 128 cm^2
2. 256 cm^2
3. 64 cm^2
4. 144 cm^2

(Difficulty: 3, Time: 20 sec)

Avoid getting stuck in lengthy steps.

Q9. A right-angled triangular park has sides in a 3:4:5 ratio, and the perimeter is 144 m. Find its area ?

Options:



title

1. 894 m^2
2. 864 m^2
3. 926 m^2
4. 1024 m^2

(Difficulty: 3, Time: 20 sec)

Perfect triplet application—use it well!

Q10. What is the volume of a sphere with radius 14 cm ?

Options:

1. $22,158.33 \text{ cm}^3$
2. $11,699.67 \text{ cm}^3$
3. $11,250.33 \text{ cm}^3$
4. None of these

(Difficulty: 2, Time: 15 sec)

Did you guess it or calculate it properly ?



Answer Key

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

Check Your Score

- 8–10 Correct: Excellent! You're exam-ready.
- 5–7 Correct: Good job. Keep practicing for perfection.
- Below 5: Time to revise the concepts. Don't worry—we're here to help!

The concepts of Mensuration are not only crucial for the SSC **CGL** Tier 1 exam but also play a key role in solving complex geometry-based questions in other competitive exams. We hope this study guide has helped you build a solid understanding of important formulas and applications. Keep practicing regularly with our **Topic-wise tests**, **PYQs**, and stay tuned with **us** for more exam-oriented notes, tips, and problem-solving techniques!