

CLAT Community

daily
QT

SECTIONAL TEST

132

DAYS TO GO FOR
CLAT 2027



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OUR RANKERS

1 in every 4 of CLAT Community's students
are now placed in Top 5 NLU's.



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SUHIT KENDURKAR



RIYA CHAUHAN



SHEIKH EHSAN KHALEELULLAH



HRISHIT PODDAR



ROHAN YADAV



TEJAS ROY



ANIRUDDH BAJAJ



KABIR WADHWANI



CANCHI SISTLA AKSHARA



SHIVAM TRIPATHI



HARDIK GAUTAM



MANYA BHASKAR



NAMASHRITA GOPINATH



RONIL DHASAL



VEDA RAO



SAMANDAR SINGH



GANJI HAINDAVI



SAHISHNA



PRANAV. S

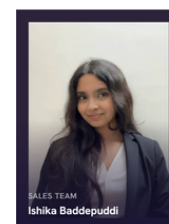
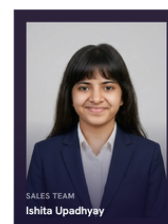
AND
MANY
MORE.

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OUR COURSES



OUR MENTORS



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MENTORS' NOTE

Good morning everyone,

If you're reading this, you're already doing something that thousands of CLAT aspirants never do—you've shown up today. That might sound like a small thing, but over the next few months you'll realise that success in CLAT is rarely decided by one brilliant mock or one 12-hour study session. It's decided by the hundreds of ordinary days where you choose to sit down and study even when you don't feel like it.

The entire CLAT Community team is rooting for you. Whenever you're stuck, ask doubts, discuss questions, and make use of the people around you. You don't have to prepare alone. We hope today's material helps you take one more step towards your dream.

Now stop reading this note and get to work. Your future self will thank you for the effort you put in today.

All the best.

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QUANTITATIVE APTITUDE

Passage I

Meridian Construction Co. manages several project sites simultaneously, allocating workers, raw materials, and profits among them according to fixed ratios agreed upon at the start of each quarter. Because sites vary in scale and duration, the company's planners frequently need to redistribute resources when a new site joins a project cluster or when the scope of an existing site changes mid-quarter. Profit-sharing among the firm's partners is also governed by ratios tied to their capital contribution and duration of investment, and these ratios are recalculated whenever a partner's stake changes during the year. Study the following details about worker allocations, material distribution, and partner profit shares for this quarter, then answer the questions below.

1. Workers at three project sites A, B, and C are allocated in the ratio 4:5:6. If site B has 45 workers, find the total number of workers across all three sites.
(A) 120
(B) 130
(C) 135
(D) 140
2. Cement and sand are mixed in the ratio 2:3 for a particular site's concrete order. If 150 bags of cement are used, find the number of bags of sand required.
(A) 200
(B) 210
(C) 225
(D) 240
3. Two business partners, Rahul and Aman, invest ₹80,000 and ₹1,20,000 respectively for the same duration. Find Rahul's share of a total profit of ₹1,00,000.
(A) ₹35,000
(B) ₹38,000

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(C) ₹40,000

(D) ₹42,000

4. Priya invests ₹60,000 for the full year, while Karan invests ₹90,000 but only for 8 months. Find the ratio of their profit shares at the end of the year.

(A) 2:3

(B) 3:2

(C) 1:1

(D) 4:5

5. At a construction site, the ratio of skilled workers to unskilled workers is 3:4, and the ratio of unskilled workers to supervisors is 8:1. Find the ratio of skilled workers to supervisors.

(A) 3:1

(B) 4:1

(C) 6:1

(D) 8:1

6. Find the fourth proportional to 6, 8, and 15.

(A) 18

(B) 20

(C) 22

(D) 24

Passage II

Golden Acres Landscaping designs and builds gardens, walkways, and water features for residential and commercial clients. Each project involves calculating the area or volume of different components, such as rectangular lawns, circular fountains, triangular flower beds, or cylindrical planters, so the company can estimate material costs and labour time accurately. Because many gardens combine several shapes, such as a rectangular lawn bordered by a path, or a fountain surrounded by a circular walkway, designers routinely calculate the area of

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a shape after subtracting or adding a smaller adjoining shape. Fencing and edging costs are calculated using the perimeter of the region being enclosed. Study the following details about this month's landscaping projects, then answer the questions below.

7. A rectangular lawn measures 24 m by 18 m. Find the cost of fencing the lawn at ₹150 per metre.

- (A) ₹11,800
- (B) ₹12,300
- (C) ₹12,600
- (D) ₹13,000

8. A circular fountain has a radius of 7 m. Find its area. (Use $\pi = 22/7$.)

- (A) 144 m²
- (B) 150 m²
- (C) 154 m²
- (D) 160 m²

9. A triangular flower bed has a base of 12 m and a height of 9 m. Find its area.

- (A) 48 m²
- (B) 50 m²
- (C) 54 m²
- (D) 60 m²

10. A rectangular lawn measures 30 m by 20 m. A uniform path of width 2 m is built around the outside of the lawn. Find the area of the path.

- (A) 200 m²
- (B) 208 m²
- (C) 216 m²
- (D) 224 m²

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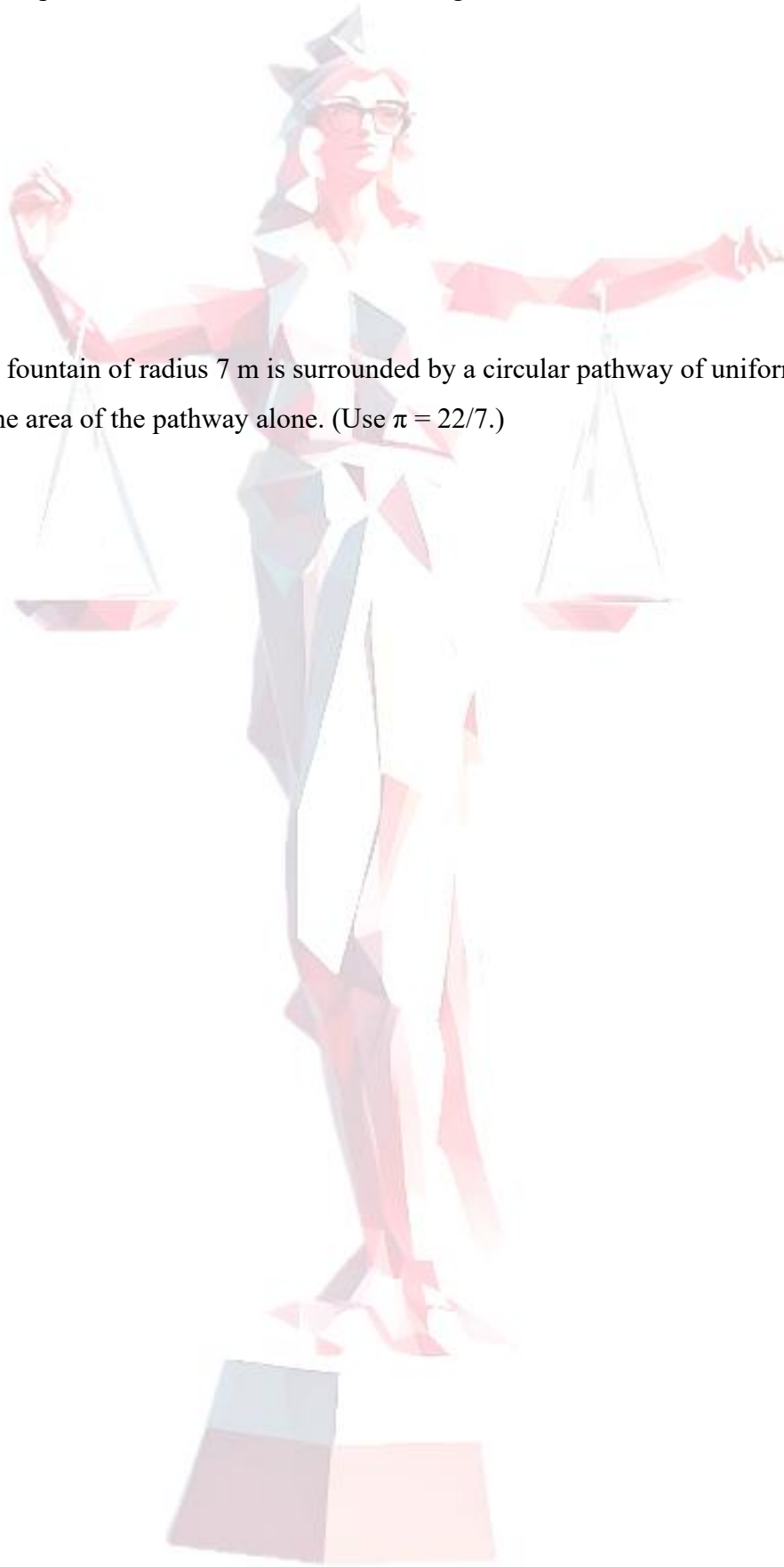
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11. A cylindrical planter has a radius of 3 m and a height of 7 m. Find its volume. (Use $\pi = 22/7$.)

- (A) 180 m^3
- (B) 190 m^3
- (C) 198 m^3
- (D) 210 m^3

12. A circular fountain of radius 7 m is surrounded by a circular pathway of uniform width 3.5 m. Find the area of the pathway alone. (Use $\pi = 22/7$.)

- (A) 180 m^2
- (B) 185.5 m^2
- (C) 192.5 m^2
- (D) 200 m^2



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ANSWER KEY**Q1.**

The ratio 4:5:6 has a total of $4+5+6 = 15$ parts.

Since site B (5 parts) has 45 workers, one part = $45/5 = 9$ workers.

Total workers = $9 \times 15 = 135$.

Answer → (C) 135

Q2.

Cement:sand = 2:3, so sand = cement $\times (3/2)$.

Sand required = $150 \times (3/2) = 225$ bags.

Answer → (C) 225

Q3.

Ratio of investments = 80,000 : 1,20,000 = 2 : 3.

Rahul's share = $(2/5) \times 1,00,000 = ₹40,000$.

Answer → (C) ₹40,000

Q4.

Profit share is proportional to (investment $\times$ time).

Priya's share value = $60,000 \times 12 = 7,20,000$. Karan's share value = $90,000 \times 8 = 7,20,000$.

Since both values are equal, the ratio of profit shares = 1:1.

Answer → (C) 1:1

Q5.

Skilled : Unskilled = 3:4. Unskilled : Supervisors = 8:1.

To combine, scale the first ratio so the 'unskilled' term matches: $3:4 = 6:8$.

Now Skilled : Unskilled : Supervisors = 6 : 8 : 1, so Skilled : Supervisors = 6:1.

Answer → (C) 6:1

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Q6.

For a fourth proportional to a, b, c, we solve $a:b = c:x$, i.e., $x = (b \times c)/a$.

$$x = (8 \times 15)/6 = 120/6 = 20.$$

Answer $\rightarrow$ (B) 20

Q7.

$$\text{Perimeter of the lawn} = 2 \times (24 + 18) = 2 \times 42 = 84 \text{ m.}$$

$$\text{Fencing cost} = 84 \times ₹150 = ₹12,600.$$

Answer $\rightarrow$ (C) ₹12,600

Q8.

$$\text{Area of circle} = \pi r^2 = (22/7) \times 7^2 = (22/7) \times 49 = 154 \text{ m}^2.$$

Answer $\rightarrow$ (C) 154 m²

Q9.

$$\text{Area of triangle} = (1/2) \times \text{base} \times \text{height} = (1/2) \times 12 \times 9 = 54 \text{ m}^2.$$

Answer $\rightarrow$ (C) 54 m²

Q10.

$$\text{Outer dimensions (lawn + path on all sides)} = (30 + 2 + 2) \times (20 + 2 + 2) = 34 \times 24 = 816 \text{ m}^2.$$

$$\text{Area of lawn} = 30 \times 20 = 600 \text{ m}^2.$$

$$\text{Area of path} = 816 - 600 = 216 \text{ m}^2.$$

Answer $\rightarrow$ (C) 216 m²

Q11.

$$\text{Volume of cylinder} = \pi r^2 h = (22/7) \times 3^2 \times 7 = (22/7) \times 9 \times 7 = 22 \times 9 = 198 \text{ m}^3.$$

Answer $\rightarrow$ (C) 198 m³

Q12.

$$\text{Outer radius (fountain + pathway)} = 7 + 3.5 = 10.5 \text{ m. Inner radius} = 7 \text{ m.}$$

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Area of pathway = $\pi(R^2 - r^2) = (22/7) \times (10.5^2 - 7^2) = (22/7) \times (110.25 - 49) = (22/7) \times 61.25$
= 192.5 m².

Answer → (C) 192.5 m²



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