

CLAT Community

daily
QT

SECTIONAL TEST

105

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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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

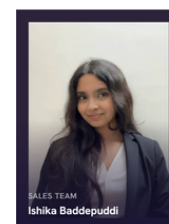
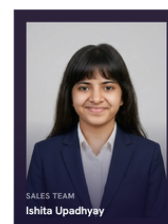
AND
MANY
MORE.

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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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DAILY QT

PASSAGE 1 — QUESTIONS 1–6

Zenith Chess Academy runs three feeder squads — Rooks, Knights, and Bishops — competing each year for a single seat at the state Nationals trial. Squad strength is tracked through FIDE-linked rating averages, which the front office recomputes constantly: after roster corrections, after new players are inducted mid-season, after squads are pooled for special trial camps, and after the state federation periodically revises its own rating scale. The registrar's spreadsheet is not always reliable — duplicate entries, late withdrawals, and outdated calibration figures have all crept into it over the years, and the coaching staff has learned to check every number rather than trust the printed average. Each of the following six questions draws on the academy's records for one particular squad or scenario, exactly as the registrar received it — figures, quirks, and all.

Q1.

Rooks squad's registrar spreadsheet shows 22 players with a recorded average rating of 1508. Two data-entry errors are later discovered. First, one player's rating is shown as 1620, but this recorded figure mistakenly includes an 8% "provisional junior bonus" that should never have been applied — her true rating is exactly what remains after removing that bonus. Second, another player, who withdrew from the academy some months ago, was never deleted from the spreadsheet; his old rating of 1430 is still sitting in both the total and the headcount, even though he should not be counted at all. Find the TRUE average rating of the squad's 21 currently enrolled players.

- (A) ≈ 1502.55
- (B) 1506
- (C) 1508
- (D) ≈ 1511.71

Q2.

Knights squad has 18 players and a current average rating of 1428. A new player, Aarav, joins. Per his state federation certificate, his own rating is exactly 15% higher than what the squad's

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average rating will become immediately AFTER he joins — not 15% higher than the current average. Find Aarav's own rating.

- (A) 1440
- (B) ≈ 1642.2
- (C) 1656
- (D) ≈ 1754.28

Q3.

Rooks squad's players have a combined (summed) rating of 23,200 points, giving them an average of 1450. Knights squad has 25% more players than Rooks, and Knights' own average rating is 1540. If the two squads are pooled into one Nationals training group, find the combined average rating.

- (A) 1490
- (B) 1495
- (C) 1500
- (D) 54,000

Q4.

Bishops squad, the academy's developmental group, has 10 players with an average rating of 1350. Two players join, one after the other — not together. First, Priya joins, and her arrival shifts the squad's average up by exactly 6 points. A week later, once the squad has settled at its new average, Rohan joins, and his arrival shifts the (already-updated) average up by a further 9 points. Find Rohan's own individual rating.

- (A) 1365
- (B) 1455
- (C) 1458
- (D) 1464

Q5.

Bishops squad's 15 players currently average 1400. Ahead of the season, the state federation switches to a new rating scale. It publishes two worked examples for verification: a player

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currently rated 1200 will show as 1230 on the new scale, and a player currently rated 1600 will show as 1590. Find Bishops squad's average rating on the new scale. (Note: the squad's actual average used for this recalibration is 1350, not the 1400 quoted above — see the federation's amendment notice attached to the same circular.)

- (A) ≈ 1383.75
- (B) 1365
- (C) 1410
- (D) 1215

Q6.

Zenith's Rooks squad is evaluated across four league stages — Classical, Rapid, Blitz and Online — that feed into one composite performance score used for a funding decision. Each stage carries a different weight reflecting its importance, and the four weights must add up to 10 in total. The academy has been told: Classical carries weight 4, Rapid weight 3, Blitz weight 2, and Online's own weight is whatever remains. Rooks scored 85 in Classical, 70 in Rapid, 60 in Blitz, and 90 in Online. Find Rooks' composite (weighted-average) performance score.

- (A) 76
- (B) 76.25
- (C) ≈ 74.44
- (D) 76.5

PASSAGE 2 — QUESTIONS 7–12

Ashgrove Ready-Mix Concrete supplies custom-graded batches to building sites across the district, blending stock from its holding yard to match each client's specified cement content. Every drum, tank and returned batch in the yard has its own tested cement percentage by weight, and Ashgrove's site engineers are trained to combine these stocks to hit an exact target percentage for each order, without wasting material or over-ordering fresh cement. The yard log is not always in perfect shape: some readings include figures that are not actually needed for the calculation at hand, some carry correction notes that must be applied before a batch's true reading can be trusted, and some stock must first be reduced to a simpler form before it

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can be blended further. As at Zenith, the numbers below are exactly as recorded in Ashgrove's own yard log — nothing has been tidied up for you.

Q7.

Ashgrove takes back two identical drums of returned slurry — Drum P and Drum Q — each holding the same (but unlabelled) weight of material, tested at 16% and 24% cement content respectively. A third, freshly tested batch of 200 kg at 32% cement content is added to both drums together in one holding bin. The combined stock tests at exactly 23% cement content. Find the weight held in Drum P.

- (A) 300 kg
- (B) ≈ 257.14 kg
- (C) 600 kg
- (D) ≈ 33.33 kg

Q8.

A 500 kg batch of ready-mix, tested at 20% cement content, needs correcting before dispatch. A contractor draws off a uniform fraction of this batch and replaces the removed weight with an equal weight of a DIFFERENT pre-mixed stock, itself tested at 35% cement content. After the swap, the full 500 kg batch tests at 26% cement content. What fraction of the original 500 kg batch was replaced?

- (A) $\approx 17.14\%$
- (B) 40%
- (C) 7.5%
- (D) $\approx 66.67\%$

Q9.

Ashgrove must prepare 600 kg of a custom blend at exactly 24% cement content, mixing Batch A with Batch B. Batch A's mix log shows it was made using 180 kg of cement in a 600 kg drum. Batch B's own cement content, per the site engineer, is exactly half of Batch A's. Both logs also record each batch's water–cement ratio — 0.5 for A and 0.6 for B — kept for a separate quality check. Find how much of Batch A is needed for the blend.

- (A) 400 kg

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- (B) 300 kg
- (C) 240 kg
- (D) 360 kg

Q10.

Stock S's yard log shows an average cement content of 24.5% across 12 drums. On re-inspection, one particular drum — originally logged at 35% — is found, via an independent re-test, to actually read 29%; the log was never updated to reflect this. Once this single entry is corrected, Stock S's TRUE average cement content is blended with Stock T in the ratio 3 : 2 (S : T, by weight) to hit a client's target of 21% cement content. Find Stock T's own cement content.

- (A) 15%
- (B) 16.5%
- (C) 15.75%
- (D) 19%

Q11.

Stock U starts out as 20 drums averaging 18% cement content — well under a client's spec. The yard manager culls (removes) drums known to test at exactly 10% cement, stopping as soon as the average of the remaining drums reaches AT LEAST 26%. (There are enough 10%-drums on hand to cull as many as are needed.) Once culling stops — using the minimum number of drums necessary — the remaining Stock U is blended with a fresh Stock V in the ratio 3 : 2 (U : V, by weight) to produce a client's order at exactly 24% cement content. Find Stock V's own cement content.

- (A) 33%
- (B) $\approx 22.67\%$
- (C) 21%
- (D) $\approx 23.18\%$

Q12.

Two small test batches are merged first: Batch A1 (8 drums, 15% cement) and Batch A2 (12 drums, 25% cement) are combined into one lot. This merged lot is then combined with Batch

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B, whose own drum count is exactly 5 FEWER than the merged lot's drum count; Batch B's own average is 28% cement. Once this second merge is complete, the resulting stock is blended with Batch C in the ratio 5 : 3 (merged stock : C) to produce a final order at exactly 21% cement content. Find Batch C's own cement content.

- (A) $\approx 14.52\%$
- (B) 19.2%
- (C) $\approx 16.95\%$
- (D) 16%



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ANSWER KEY

PASSAGE 1 — ZENITH CHESS ACADEMY (AVERAGES)

Q1

Correct answer: (B) 1506

Q2

Correct answer: (C) 1656

Q3

Correct answer: (C) 1500

Q4

Correct answer: (D) 1464

Q5

Correct answer: (B) 1365

Q6

Correct answer: (A) 76

PASSAGE 2 — ASHGROVE READY-MIX CONCRETE (MIXTURES AND ALLEGATION + SYNTHESIS)

Q7

Correct answer: (A) 300 kg

Q8

Correct answer: (B) 40%

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Q9

Correct answer: (D) 360 kg

Q10

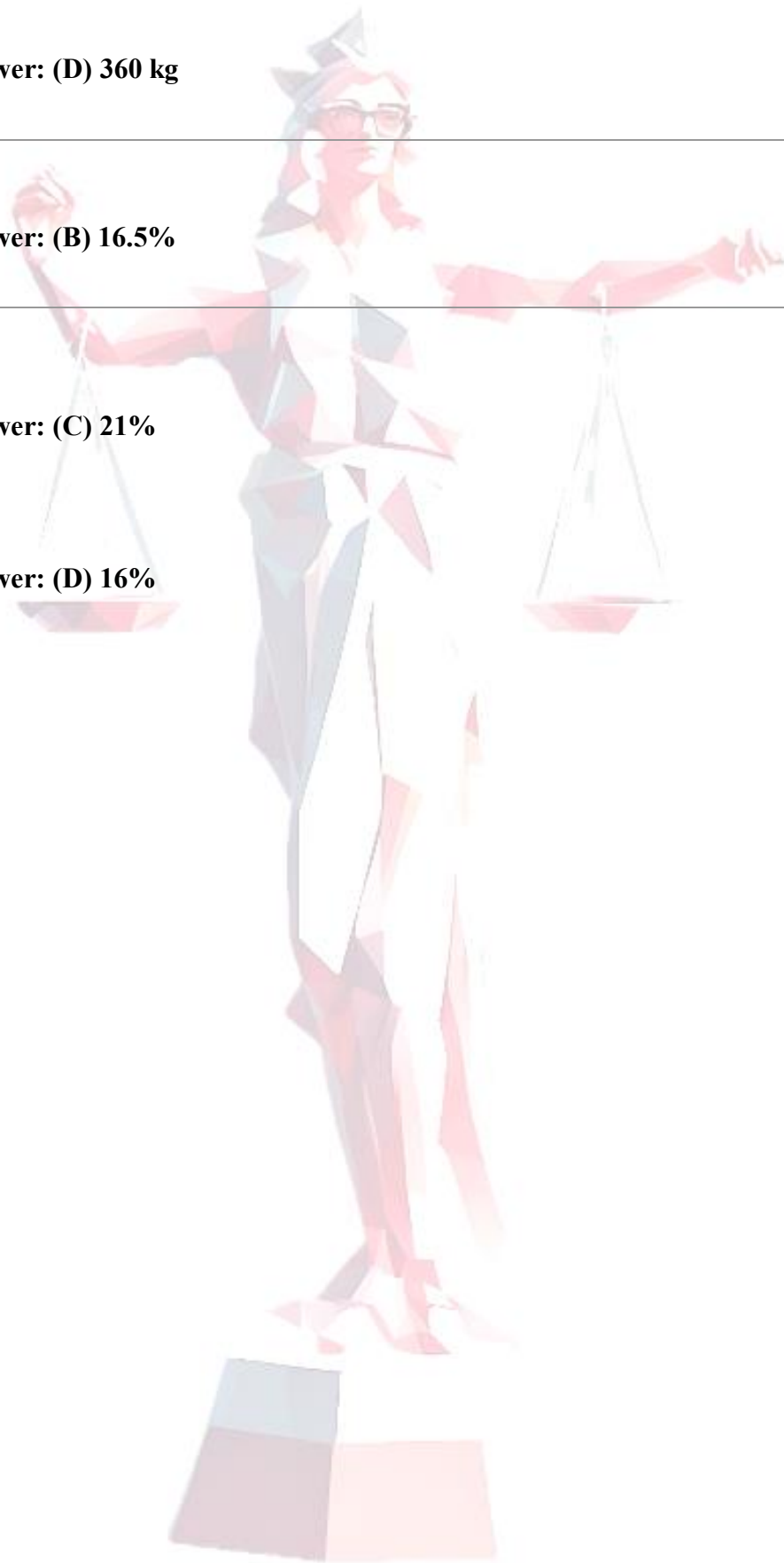
Correct answer: (B) 16.5%

Q11

Correct answer: (C) 21%

Q12

Correct answer: (D) 16%



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