

CLAT Community

daily QT

SECTIONAL TEST

48

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 NLUs.



SAHER GOLE



PARTHIVA SUSHANTH



MIHIKA AGGARWAL



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

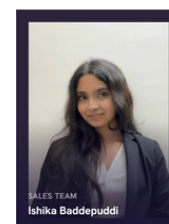
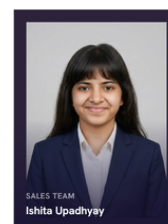
AND
MANY
MORE.

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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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DAILY QT

PASSAGE 1 — COINFLIP ANALYTICS: REPEATED TOSSES, BINOMIAL OUTCOMES & CONDITIONAL COUNTING

CoinFlip Analytics designs fair-chance games and audits random-number generators using sequences of coin tosses. Every coin in this passage is fair and the tosses are independent, so each toss gives heads or tails with probability $1/2$. Where a question asks for a conditional probability, use the stated condition to shrink the sample space.

1. Five fair coins are tossed together. The probability of getting exactly three heads is:

- (A) $5/16$
- (B) $3/8$
- (C) $1/4$
- (D) $7/32$

2. Five fair coins are tossed together. The probability of getting at least four heads is:

- (A) $1/8$
- (B) $3/16$
- (C) $5/16$
- (D) $7/32$

3. A fair coin is tossed repeatedly until the first head appears. The probability that the first head appears on the fourth toss is:

- (A) $1/8$
- (B) $1/16$
- (C) $1/32$
- (D) $1/4$

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4. Six fair coins are tossed together. The probability that the number of heads is strictly greater than the number of tails is:

- (A) $21/64$
- (B) $1/2$
- (C) $15/32$
- (D) $11/32$

5. Four fair coins are tossed together. Given that at least one head appears, the probability that exactly one head appears is:

- (A) $1/4$
- (B) $4/15$
- (C) $1/5$
- (D) $3/8$

6. Five fair coins are tossed together. Given that the first two coins both show heads, the probability that the total number of heads is exactly three is:

- (A) $3/8$
- (B) $1/2$
- (C) $3/10$
- (D) $5/16$

PASSAGE 2 — MAGIC GRID AUDIT: A 3×3 ARRANGEMENT WITH EQUAL LINE SUMS

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A QA team checks a 3×3 grid filled with the integers 1 to 9, each used exactly once. The grid is valid only if every row, every column, and both main diagonals add up to the same total. Label the cells row by row as a, b, c (top row), d, e, f (middle row) and g, h, i (bottom row). The two diagonals are a–e–i and c–e–g. Questions 7 to 12 concern valid grids only.

7. The common line sum of a valid grid is:

- (A) 12
- (B) 18
- (C) 15
- (D) 9

8. In a valid grid, $a = 2$ and $b = 7$. The value of c is:

- (A) 6
- (B) 3
- (C) 9
- (D) 4

9. In a valid grid, $a = 2$ and $e = 5$. The value of i is:

- (A) 4
- (B) 2
- (C) 8
- (D) 6

10. In a valid grid, $c = 6$ and $e = 5$. The value of g is:

- (A) 3
- (B) 4
- (C) 7

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(D) 9

11. The number of distinct valid grids that can be formed with the integers 1 to 9 is:

(A) 4

(B) 8

(C) 6

(D) 12

12. In every valid grid, the sum of the four corner cells ($a + c + g + i$) equals:

(A) 18

(B) 25

(C) 22

(D) 20

ANSWER KEY

PASSAGE 1 — COINFLIP ANALYTICS (TOSSES & CONDITIONAL COUNTING)

Q1: (A) $5/16$ — $C(5,3) / 2^5 = 10/32 = 5/16$.

Q2: (B) $3/16$ — $[C(5,4) + C(5,5)] / 2^5 = (5 + 1)/32 = 6/32 = 3/16$.

Q3: (B) $1/16$ — The first three tosses are tails and the fourth is heads: $(1/2)^4 = 1/16$.

Q4: (D) $11/32$ — Heads must be 4, 5 or 6: $(15 + 6 + 1)/64 = 22/64 = 11/32$.

Q5: (B) $4/15$ — Exactly one head is 4 outcomes; at least one head is $16 - 1 = 15$ outcomes.
So $4/15$.

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Q6: (A) $\frac{3}{8}$ — The first two are heads, so exactly one more head is needed among the remaining three coins: $C(3,1)/2^3 = \frac{3}{8}$.

PASSAGE 2 — MAGIC GRID AUDIT (LINE SUMS)

Q7: (C) 15 — The digits 1 to 9 sum to 45, and the three rows must share a common sum S , so $3S = 45$ and $S = 15$.

Q8: (A) 6 — Row a, b, c must sum to 15, so $c = 15 - 2 - 7 = 6$.

Q9: (C) 8 — Diagonal a, e, i must sum to 15, so $i = 15 - 2 - 5 = 8$.

Q10: (B) 4 — Diagonal c, e, g must sum to 15, so $g = 15 - 6 - 5 = 4$.

Q11: (B) 8 — Exhaustive check of all $9!$ arrangements gives exactly 8 valid grids: the Lo Shu square and its rotations and reflections.

Q12: (D) 20 — In every valid grid the four corners sum to 20. Checked across all 8 valid grids.

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