



2IIM

CAT

Blitzkrieg

**ALL CAT QUESTIONS
FROM
P&C AND PROBABILITY**

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Q1. CAT 2018 – Slot II

In a tournament, there are 43 junior level and 51 senior level participants. Each pair of juniors play one match. Each pair of seniors play one match. There is no junior versus senior match. The number of girl versus girl matches in junior level is 153, while the number of boy versus boy matches in senior level is 276. The number of matches a boy plays against a girl is (TITA)

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Q2. CAT 2017 – Slot I

In how many ways can 7 identical erasers be distributed among 4 kids in such a way that each kid gets at least one eraser but nobody gets more than 3 erasers?

- A) 16
- B) 20
- C) 14
- D) 15

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Q3. CAT 2017 – Slot I

Let AB, CD, EF, GH, and JK be five diameters of a circle with center at O. In how many ways can three points be chosen out of A, B, C, D, E, F, G, H, J, K, and O so as to form a triangle?
(TITA)

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Q4. CAT 2017 – Slot II

How many four-digit numbers, which are divisible by 6, can be formed using the digits 0, 2, 3, 4, 6, such that no digit is used more than once and 0 does not occur in the left-most position?

[TITA]

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Q5. CAT 2017 – Slot II

In how many ways can 8 identical pens be distributed among Amal, Bimal, and Kamal so that Amal gets at least 1 pen, Bimal gets at least 2 pens, and Kamal gets at least 3 pens?

[TITA]

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Q6. XAT - 2021

A small store has five units of a new phone model in stock: two white, two black, and one red. Three customers arrive at the shop to buy a unit each. Each one has a pre-determined choice of the colour and will not buy a unit of any other colour. All the three customers are equally likely to have chosen any of the three colours. What is the probability that the store will be able to satisfy all the three customers?

A) $\frac{1}{3}$

B) $\frac{4}{5}$

C) $\frac{7}{9}$

D) $\frac{2}{3}$

E) $\frac{8}{9}$



Q7. XAT 2020

Ashok has a bag containing 40 cards, numbered with integers from 1 to 40. No two cards are numbered with the same integer. Likewise, his sister Shilpa has another bag containing only five cards that are numbered with the integers from 1 to 5, with no integer repeating. Their mother, Latha, randomly draws one card each from Ashok's and Shilpa's bags and notes down their respective numbers. If Latha divides the number obtained from Ashok's bag by the number obtained from Shilpa's, what is the probability that the remainder will not be greater than 2?

- A) 0.91
- B) 0.87
- C) 0.94
- D) 0.73
- E) 0.8



Q8. XAT 2020

A box contains 6 cricket balls, 5 tennis balls and 4 rubber balls. Of these, some balls are defective. The proportion of defective cricket balls is more than the proportion of defective tennis balls but less than the proportion of defective rubber balls. Moreover, the overall proportion of defective balls is twice the proportion of defective tennis balls. What BEST can be said about the number of defective rubber balls in the box?

- A) It is exactly 3
- B) It is either 3 or 4
- C) It is exactly 2
- D) It is either 2 or 3
- E) It is either 0 or 1



Q9. XAT 2019

A bag contains marbles of three colors-red, blue and green. There are 8 blue marbles in the bag. There are two additional statements of facts available:

1. If we pull out marbles from the bag at random, to guarantee that we have at least 3 green marbles, we need to extract 17 marbles.
2. If we pull out marbles from the bag at random, to guarantee that we have at least 2 red marbles, we need to extract 19 marbles.

Which of the two statements above, alone or in combination shall be sufficient to answer the question "how many green marbles are there in the bag"?



Q9. XAT 2019

- A) Statement 1 alone is sufficient, but statement 2 alone is not sufficient to answer the question.
- B) Statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question.
- C) Statements 1 and 2 together are not sufficient, and additional data is needed to answer the question.
- D) Each statement alone is sufficient to answer the question.
- E) Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.



Q10. XAT 2020

A coin of radius 3 cm is randomly dropped on a square floor full of square-shaped tiles of sides 10 cm each. What is the probability that the coin will land completely within a tile? In other words, the coin should not cross the edge of any tile.

- A) 0.91
- B) 0.5
- C) 0.49
- D) 0.36
- E) 0.16

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