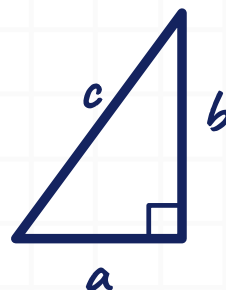
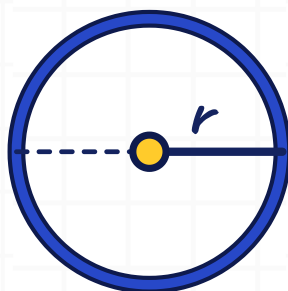


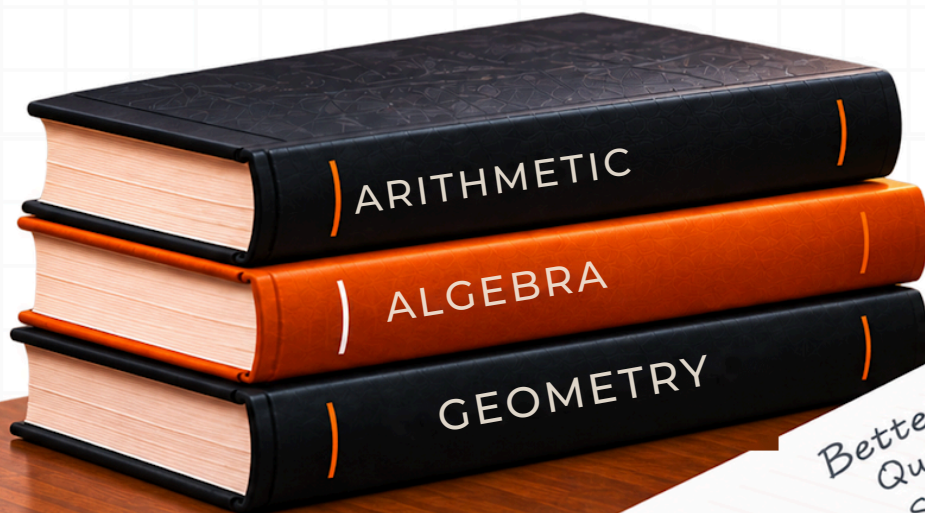
CAT PYQ

Permutations & Combinations

$$a^2 + b^2 = c^2$$



$$D = S \times T$$



Better
Questions
Stronger
Concepts
Brighter Future

Permutations & Combinations CAT PYQ



Common Admission Test - Indian Institutes of Management

6 Questions

Quantitative Aptitude

Years: 2018-2021

General Instructions

- (i) This collection contains **6 Quantitative Aptitude questions** classified under **Permutations & Combinations**, following the supplied CD PYQ sheet.
- (ii) **Coverage:** CAT 2018-2021. Questions are grouped by their source year and sitting, with continuous numbering from **1 to 6**.
- (iii) This collection has **0 multiple choice questions (MCQs)** and **6 Type In The Answer (TITA) questions**. Read every option before choosing the answer. Enter a response for questions marked "Type in the answer."
- (iv) Original mathematical expressions, question wording and option order are retained. Use the diagrams and data provided with each question.
- (v) Each question carries its original year or exam date, sitting where available, and source question number.
- (vi) Use this collection for practice. Follow the timing and marking scheme of the original sitting when attempting a timed exercise.
- (vii) Answer keys and solutions are not included. Passages and questions may continue onto the following page.

CAT 2021 Slot 1 - Questions 1-1

1. The number of groups of three or more distinct numbers that can be chosen from 1, 2, 3, 4, 5, 6, 7 and 8 so that the groups always include 3 and 5, while 7 and 8 are never included together is

28 Nov 2021, Slot 1, Q51

Type in the answer.

CAT 2021 Slot 2 - Questions 2-2

2. The number of ways of distributing 15 identical balloons, 6 identical pencils and 3 identical erasers among 3 children, such that each child gets at least four balloons and one pencil, is

28 Nov 2021, Slot 2, Q49

Type in the answer.

CAT 2021 Slot 3 - Questions 3-3

3. A four-digit number is formed by using only the digits 1, 2 and 3 such that both 2 and 3 appear at least once. The number of all such four-digit numbers is

28 Nov 2021, Slot 3, Q64

Type in the answer.

CAT 2019 Slot 1 - Questions 4-4

4. With rectangular axes of coordinates, the number of paths from $(1, 1)$ to $(8, 10)$ via $(4, 6)$, where each step from any point (x, y) is either to $(x, y+1)$ or to $(x+1, y)$, is

24 Nov 2019, Slot 1, Q97

Type in the answer.

CAT 2018 Slot 1 - Questions 5-5

5. How many numbers with two or more digits can be formed with the digits 1,2,3,4,5,6,7,8,9, so that in every such number, each digit is used at most once and the digits appear in the ascending order?

25 Nov 2018, Slot 1, Q81

Type in the answer.

CAT 2018 Slot 2 - Questions 6-6

6. 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

25 Nov 2018, Slot 2, Q76

Type in the answer.

- End of PYQ Collection -
