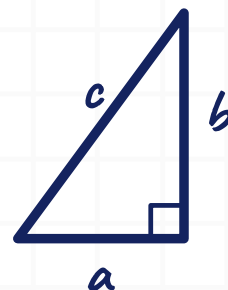
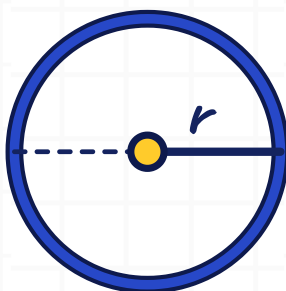


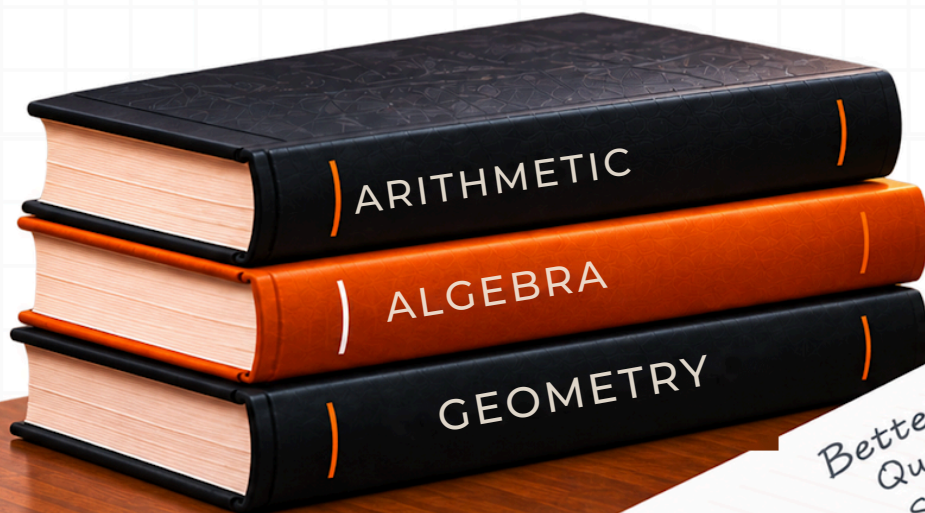
CAT PYQ

Factors & Multiples

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



$$D = S \times T$$



Better
Questions
Stronger
Concepts
Brighter Future

Factors & Multiples CAT PYQ



Common Admission Test - Indian Institutes of Management

6 Questions

Quantitative Aptitude

Years: 1991-2025

General Instructions

- (i) This collection contains **6 Quantitative Aptitude questions** classified under **Factors & Multiples**, following the supplied CD PYQ sheet.
- (ii) **Coverage:** CAT 1991-2025. Questions are grouped by their source year and sitting, with continuous numbering from **1 to 6**.
- (iii) This collection has **5 multiple choice questions (MCQs)** and **1 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 2025 Slot 2 - Questions 1-2

1. If m and n are integers such that $(m + 2n)(2m + n) = 27$, then the maximum possible value of $2m - 3n$ is

30 Nov 2025, Slot 2, Q51

Type in the answer.

2. The number of divisors of $(2^6 \times 3^5 \times 5^3 \times 7^2)$, which are of the form $(3r + 1)$, where r is a non-negative integer, is

30 Nov 2025, Slot 2, Q60

(A) 36

(B) 56

(C) 24

(D) 42

CAT 2020 Slot 1 - Questions 3-3

3. If a , b and c are positive integers such that $ab = 432$, $bc = 96$ and $c < 9$, then the smallest possible value of $a + b + c$ is

29 Nov 2020, Slot 1, Q72

(A) 49

(B) 56

(C) 59

(D) 46

CAT 2020 Slot 3 - Questions 4-4

4. How many pairs (a, b) of positive integers are there such that $a \leq b$ and $ab = 4^{2017}$?

29 Nov 2020, Slot 3, Q70

(A) 2018

(B) 2019

(C) 2017

(D) 2020

CAT 1997 - Questions 5-5

5. P and Q are two positive integers such that $PQ = 64$. Which of the following cannot be the value of $P + Q$?

CAT 1997, Q116

(A) 20

(B) 65

(C) 16

(D) 35

CAT 1991 - Questions 6-6

6. What is the greatest power of 5 which can divide $80!$ exactly?

CAT 1991, Q83

(A) 16

(B) 20

(C) 19

(D) None of these

- End of PYQ Collection -
