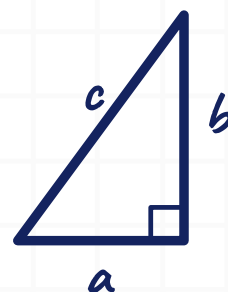
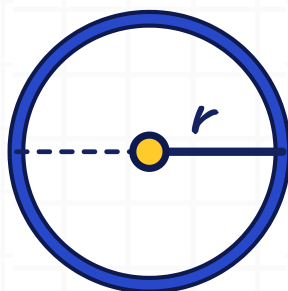


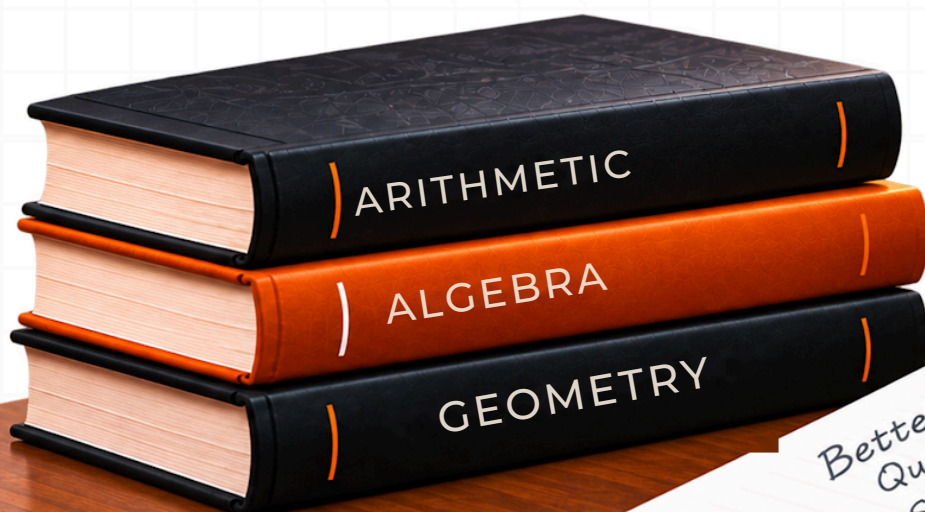
CAT PYQ

LCM-HCF

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



$$D = S \times T$$



Better
Questions
Stronger
Concepts
Brighter Future

7 Questions

Quantitative Aptitude

Years: 1991-2002

General Instructions

- (i) This collection contains **7 Quantitative Aptitude questions** classified under **LCM-HCF**, following the supplied CD PYQ sheet.
- (ii) **Coverage:** CAT 1991-2002. Questions are grouped by their source year and sitting, with continuous numbering from **1 to 7**.
- (iii) This collection has **7 multiple choice questions (MCQs)**. Read every option before choosing 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 2002 - Questions 1-2

1. At a bookstore, 'MODERN BOOK STORE' is flashed using neon lights. The words are individually flashed at the intervals of 2.5 s, 4.25 s and 5.125 s respectively, and each word is put off after a second. The least time after which the full name of the bookstore can be read again for a full second is

CAT 2002, Q79

- (A) 49.5 s (B) 72.5 s
(C) 1744.5 s (D) 855 s
-

2. Three pieces of cakes of weights 4.5 lb, 6.75 lb and 7.2 lb respectively are to be divided into parts of equal weight. Further, each part must be as heavy as possible. If one such part is served to each guest, then what is the maximum number of guests that could be entertained?

CAT 2002, Q80

- (A) 54 (B) 72
(C) 20 (D) None of these
-

CAT 2001 - Questions 3-3

3. A red light flashes three times per minute and a green light flashes five times in 2 min at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour?

CAT 2001, Q5

(A) 30

(B) 24

(C) 20

(D) 60

CAT 1999 - Questions 4-4

4. For two positive integers a and b define the function $h(a,b)$ as the greatest common factor (G.C.F) of a, b . Let A be a set of n positive integers. $G(A)$, the GCF of the elements of set A is computed by repeatedly using the function h . The minimum number of times h is required to be used to compute G is:

CAT 1999, Q67

(A) $\frac{1}{2} n$

(B) $(n - 1)$

(C) n

(D) None of these

CAT 1998 - Questions 5-6

5. Three wheels can complete 60, 36 and 24 revolutions per minute. There is a red spot on each wheel that touches the ground at time zero. After how much time, all these spots will simultaneously touch the ground again?

CAT 1998, Q72

(A) $\frac{5}{2}$ s

(B) $\frac{5}{3}$ s

(C) 5 s

(D) 7.5 s

6. Number of students who have opted for subjects A, B and C are 60, 84 and 108 respectively. The examination is to be conducted for these students such that only the students of the same subject are allowed in one room. Also the number of students in each room must be same. What is the minimum number of rooms that should be arranged to meet all these conditions?

CAT 1998, Q80

(A) 28

(B) 60

(C) 12

(D) 21

CAT 1991 - Questions 7-7

7. Find the minimum integral value of n such that the division $\frac{55n}{124}$ leaves no remainder.

CAT 1991, Q85

(A) 124

(B) 123

(C) 31

(D) 62

- End of PYQ Collection -
