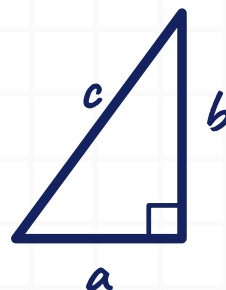
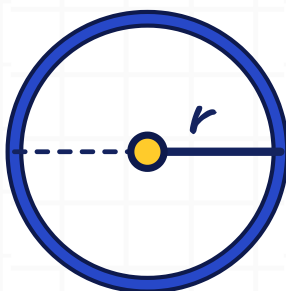


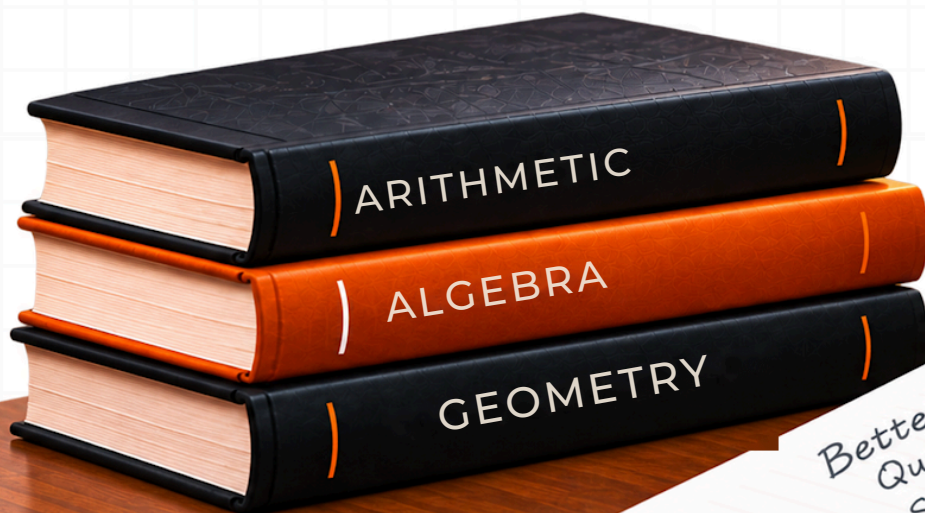
CAT PYQ

Simple & Compound Interest

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



$$D = S \times T$$



Better
Questions
Stronger
Concepts
Brighter Future

Simple & Compound Interest CAT PYQ



Common Admission Test - Indian Institutes of Management

21 Questions

Quantitative Aptitude

Years: 1991-2025

General Instructions

- (i) This collection contains **21 Quantitative Aptitude questions** classified under **Simple & Compound Interest**, 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 21**.
- (iii) This collection has **11 multiple choice questions (MCQs)** and **10 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 1 - Questions 1-1

1. At a certain simple rate of interest, a given sum amounts to Rs 13920 in 3 years, and to Rs 18960 in 6 years and 6 months. If the same given sum had been invested for 2 years at the same rate as before but with interest compounded every 6 months, then the total interest earned, in rupees, would have been nearest to

30 Nov 2025, Slot 1, Q55

(A) 3221

(B) 3180

(C) 3150

(D) 3096

CAT 2025 Slot 2 - Questions 2-2

2. A loan of Rs 1000 is fully repaid by two installments of Rs 530 and Rs 594, paid at the end of first and second year, respectively. If the interest is compounded annually, then the rate of interest, in percentage, is

30 Nov 2025, Slot 2, Q58

- (A) 10
- (C) 9

- (B) 11
 - (D) 8
-

CAT 2024 Slot 1 - Questions 3-3

3. An amount of Rs 10000 is deposited in bank A for a certain number of years at a simple interest of 5% per annum. On maturity, the total amount received is deposited in bank B for another 5 years at a simple interest of 6% per annum. If the interests received from bank A and bank B are in the ratio 10 : 13, then the investment period, in years, in bank A is

24 Nov 2024, Slot 1, Q65

- | | |
|-------|-------|
| (A) 4 | (B) 5 |
| (C) 3 | (D) 6 |
-

CAT 2024 Slot 2 - Questions 4-4

4. Anil invests Rs 22000 for 6 years in a scheme with 4% interest per annum, compounded half-yearly. Separately, Sunil invests a certain amount in the same scheme for 5 years, and then reinvests the entire amount he receives at the end of 5 years, for one year at 10% simple interest. If the amounts received by both at the end of 6 years are equal, then the initial investment, in rupees, made by Sunil is

24 Nov 2024, Slot 2, Q59

- | | |
|-----------|-----------|
| (A) 20860 | (B) 20640 |
| (C) 20480 | (D) 20808 |
-

CAT 2024 Slot 3 - Questions 5-5

5. Aman invests Rs 4000 in a bank at a certain rate of interest, compounded annually. If the ratio of the value of the investment after 3 years to the value of the investment after 5 years is 25 : 36, then the minimum number of years required for the value of the investment to exceed Rs 20000 is

24 Nov 2024, Slot 3, Q55

Type in the answer.

CAT 2023 Slot 1 - Questions 6-6

6. Anil invests Rs. 22000 for 6 years in a certain scheme with 4% interest per annum, compounded half-yearly. Sunil invests in the same scheme for 5 years, and then reinvests the entire amount received at the end of 5 years for one year at 10% simple interest. If the amounts received by both at the end of 6 years are same, then the initial investment made by Sunil, in rupees, is

26 Nov 2023, Slot 1, Q59

Type in the answer.

CAT 2023 Slot 2 - Questions 7-7

7. Anil borrows Rs 2 lakhs at an interest rate of 8% per annum, compounded half-yearly. He repays Rs 10320 at the end of the first year and closes the loan by paying the outstanding amount at the end of the third year. Then, the total interest, in rupees, paid over the three years is nearest to

26 Nov 2023, Slot 2, Q53

- (A) 45311
- (C) 33130

- (B) 51311
 - (D) 40991
-

CAT 2022 Slot 1 - Questions 8-8

8. Alex invested his savings in two parts. The simple interest earned on the first part at 15% per annum for 4 years is the same as the simple interest earned on the second part at 12% per annum for 3 years. Then, the percentage of his savings invested in the first part is

27 Nov 2022, Slot 1, Q64

- | | |
|-----------|-----------|
| (A) 37.5% | (B) 62.5% |
| (C) 60% | (D) 40% |
-

CAT 2022 Slot 2 - Questions 9-9

9. Mr. Pinto invests one-fifth of his capital at 6%, one-third at 10% and the remaining at 1%, each rate being simple interest per annum. Then, the minimum number of years required for the cumulative interest income from these investments to equal or exceed his initial capital is

27 Nov 2022, Slot 2, Q45

Type in the answer.

CAT 2022 Slot 3 - Questions 10-10

10. Nitu has an initial capital of ₹20,000. Out of this, she invests ₹8,000 at 5.5% in bank A, ₹5,000 at 5.6% in bank B and the remaining amount at $x\%$ in bank C, each rate being simple interest per annum. Her combined annual interest income from these investments is equal to 5% of the initial capital. If she had invested her entire initial capital in bank C alone, then her annual interest income, in rupees, would have been

27 Nov 2022, Slot 3, Q53

(A) 700

(B) 800

(C) 900

(D) 1000

CAT 2021 Slot 1 - Questions 11-11

11. Anil invests some money at a fixed rate of interest, compounded annually. If the interests accrued during the second and third year are ₹ 806.25 and ₹ 866.72, respectively, the interest accrued, in INR, during the fourth year is nearest to

28 Nov 2021, Slot 1, Q56

(A) 929.48

(B) 934.65

(C) 931.72

(D) 926.84

CAT 2021 Slot 3 - Questions 12-12

12. Bank A offers 6% interest rate per annum compounded half-yearly. Bank B and Bank C offer simple interest but the annual interest rate offered by Bank C is twice that of Bank B. Raju invests a certain amount in Bank B for a certain period and Rupa invests ₹ 10,000 in Bank C for twice that period. The interest that would accrue to Raju during that period is equal to the interest that would have accrued had he invested the same amount in Bank A for one year. The interest accrued, in INR, to Rupa is

28 Nov 2021, Slot 3, Q60

- | | |
|----------|----------|
| (A) 3436 | (B) 2436 |
| (C) 2346 | (D) 1436 |
-

CAT 2020 Slot 1 - Questions 13-13

13. Veeru invested Rs 10000 at 5% simple annual interest, and exactly after two years, Joy invested Rs 8000 at 10% simple annual interest. How many years after Veeru's investment, will their balances, i.e., principal plus accumulated interest, be equal?

29 Nov 2020, Slot 1, Q74

Type in the answer.

CAT 2020 Slot 2 - Questions 14-14

14. For the same principal amount, the compound interest for two years at 5% per annum exceeds the simple interest for three years at 3% per annum by Rs 1125. Then the principal amount in rupees is

29 Nov 2020, Slot 2, Q54

Type in the answer.

CAT 2020 Slot 3 - Questions 15-15

15. A person invested a certain amount of money at 10% annual interest, compounded half-yearly. After one and a half years, the interest and principal together became Rs.18522. The amount, in rupees, that the person had invested is

29 Nov 2020, Slot 3, Q63

Type in the answer.

CAT 2019 Slot 1 - Questions 16-17

16. Amala, Bina, and Gouri invest money in the ratio 3 : 4 : 5 in fixed deposits having respective annual interest rates in the ratio 6 : 5 : 4. What is their total interest income (in Rs) after a year, if Bina's interest income exceeds Amala's by Rs 250?

24 Nov 2019, Slot 1, Q77

- (A) 6350 (B) 6000
(C) 7000 (D) 7250

17. A person invested a total amount of Rs 15 lakh. A part of it was invested in a fixed deposit earning 6% annual interest, and the remaining amount was invested in two other deposits in the ratio 2 : 1, earning annual interest at the rates of 4% and 3%, respectively. If the total annual interest income is Rs 76000 then the amount (in Rs lakh) invested in the fixed deposit was

24 Nov 2019, Slot 1, Q82

Type in the answer.

CAT 2019 Slot 2 - Questions 18-18

18. Amal invests Rs 12000 at 8% interest, compounded annually, and Rs 10000 at 6% interest, compounded semi-annually, both investments being for one year. Bimal invests his money at 7.5% simple interest for one year. If Amal and Bimal get the same amount of interest, then the amount, in Rupees, invested by Bimal is

24 Nov 2019, Slot 2, Q68

Type in the answer.

CAT 2018 Slot 1 - Questions 19-19

19. John borrowed Rs. 2,10,000 from a bank at an interest rate of 10% per annum, compounded annually. The loan was repaid in two equal instalments, the first after one year and the second after another year. The first instalment was interest of one year plus part of the principal amount, while the second was the rest of the principal amount plus due interest thereon. Then each instalment, in Rs., is

25 Nov 2018, Slot 1, Q79

Type in the answer.

CAT 2018 Slot 2 - Questions 20-20

20. Gopal borrows Rs. X from Ankit at 8% annual interest. He then adds Rs. Y of his own money and lends Rs. $X+Y$ to Ishan at 10% annual interest. At the end of the year, after returning Ankit's dues, the net interest retained by Gopal is the same as that accrued to Ankit. On the other hand, had Gopal lent Rs. $X+2Y$ to Ishan at 10%, then the net interest retained by him would have increased by Rs. 150. If all interests are compounded annually, then find the value of $X + Y$.

25 Nov 2018, Slot 2, Q97

Type in the answer.

CAT 1991 - Questions 21-21

21. A sum of money compounded annually becomes Rs.625 in two years and Rs.675 in three years. The rate of interest per annum is

CAT 1991, Q92

(A) 7%

(B) 8%

(C) 6%

(D) 5%

- End of PYQ Collection -
