September Sprint for CAT 2025

Class 5

Percentage and its Applications

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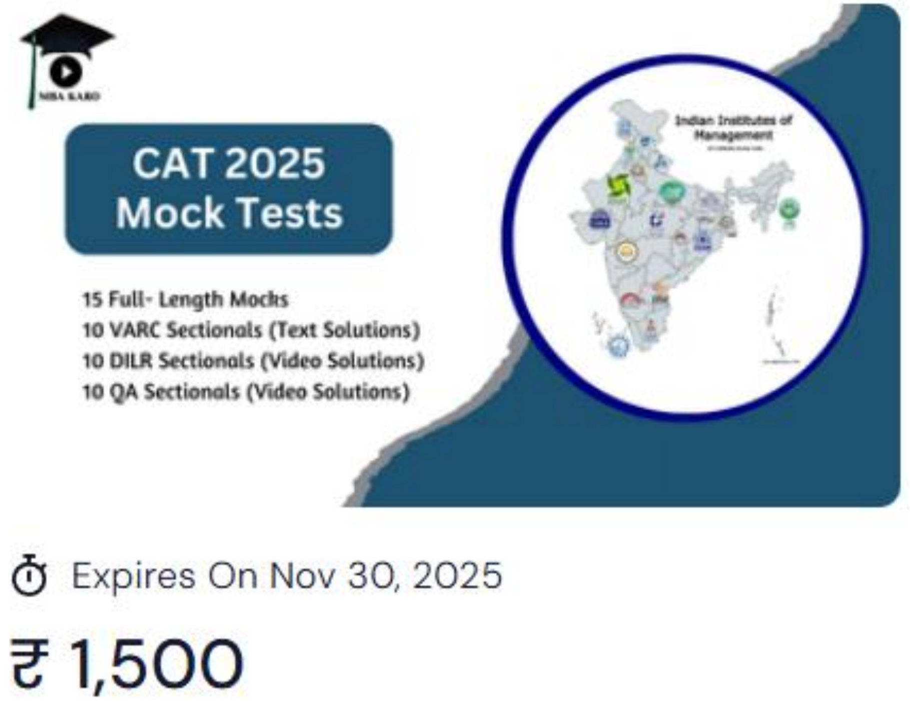

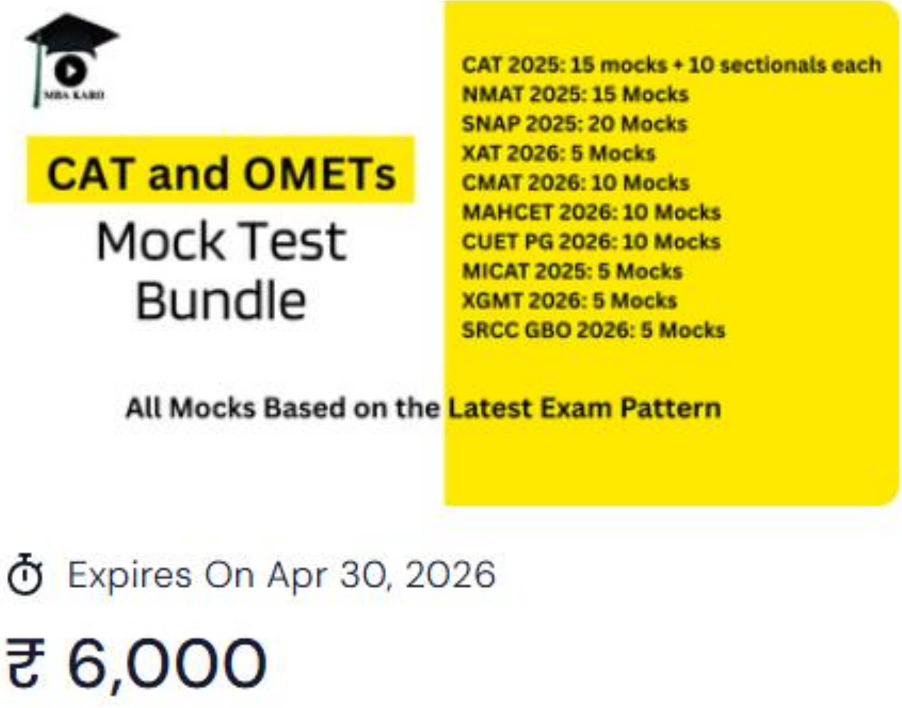

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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths

The cost of packaging accounts for 8.33% of the total cost of a product. If the cost of packaging increases by 20% and all other costs remain the same, by what percentage does the cost of the product increase?

A. 1.5%
B. 2%
C. 1.67%
D. 1.83%

A company has two offices – A and B. Office B has 50% more employees than Office A. The number of men in Office A is equal to the number of women in Office B. The percentage of men is the same in both offices. What percentage of the employees of the company are women?

A. 33.33
B. 40
C. 50
D. 66.67

Because the price of mangoes increased by 12.5%, even after increasing the expenditure on purchasing mangoes from Rs. 450 to Rs. 495, a person was able to purchase 1 mango less than usual. Find the number of mangoes purchased now.

In a college, 15% of the girls and 20% of the boys failed in the exam. The number of girls who passed the exam was 82 more than the number of boys who passed the exam. If the number of students who failed the exam was 110, how many students are there in the college?

A man sold a fridge at 12% profit. If he had bought the fridge for 16% less amount and sold it for Rs. 1400 less, then he would have gained 20%. Find the original selling price of the fridge.

A. Rs. 14000
B. Rs. 15000
C. Rs. 16000
D. Rs. 11200

The cost price of goods increases by Rs. 2500, and a trader manages to increase his selling price by only Rs. 2000. This resulted in his profit percentage dropping from 20% to 12%. What was the percentage increase in the selling price?

A. 20%
B. 16.66%
C. 16.25%
D. 15.55%

As a part of a sales promotion, a stationer is offering 1 pencil free with every pack of 10 pencils. By what percentage should he mark up the pencils if he desires a profit of 10%?

A. 20%

B. 21%

C. 22.22%

D. 18.18%

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A shopkeeper marked an article 26.66% above its cost price and sold it after two successive discounts of 12.5% and Rs. 112, respectively. If the total profit earned by the shopkeeper in the whole transaction is Rs. 18, then find the marked price of the article.

The shopkeeper mistakenly read the marked price at Rs. 1680 instead of Rs. 1950 and sold the article at a 15% discount. After selling the article, he reads the actual marked price and to compensate for the loss, he sells the same article to the next customer at an 8% discount on the correct marked price. What is the difference between the selling prices of the two articles?

A. Rs. 366
B. Rs. 252
C. Rs. 316
D. Rs. 286

A shopkeeper bought a certain number of eggs from seller A for Rs. 1200. Unfortunately, 10 eggs were broken. The shopkeeper sold the remaining eggs for Rs. 2 more per egg than what he originally paid. This way, he earned Rs. 60 in profit. The next day, the shopkeeper bought the same number of eggs from another seller B, but this time, he paid Rs. 1210. All the eggs were intact. How much should the shopkeeper sell each egg for to make a 20% profit?

A. Rs. 12.96
B. Rs. 13.44
C. Rs. 13.20
D. Rs. 14.52

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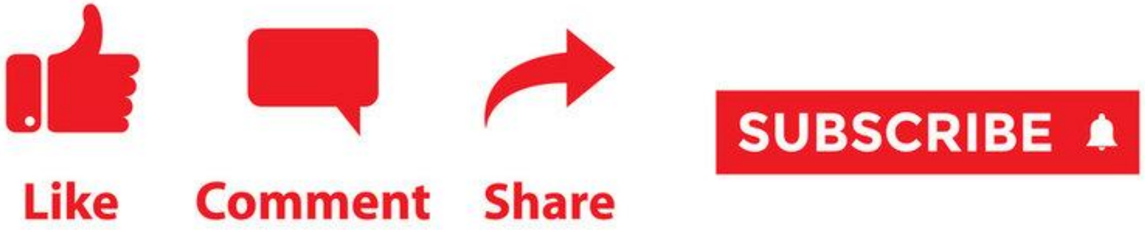

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In summer, the meter scale of a cloth merchant expands by 25%. By what percentage should he mark up the cloth so that even after giving a 10% discount on the list price, the merchant still makes a profit of 8%?

A. 50%
B. 40%
C. 33.33%
D. 20%

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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?

A. 8

B. 10

C. 12

D. 15

An equal sum was invested in three schemes for two years. The 1st scheme provided 10% SI, the 2nd provided 15% SI and the 3rd scheme provided 20% CI. Total interest received after two years from all schemes is what percent of the total sum?

A. 26.67%

B. 29.33%

C. 30%

D. 31.33%

A certain amount of money is lent out at compound interest at the rate of 20% per annum for two years, compounded annually. It would give Rs. 1446 more if the amount is compounded half-yearly. Find the principal.

A. 30000
B. 45000
C. 48000
D. 60000

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Tarun deposited some money in SBI at the rate of 20% p.a. simple interest. He withdrew the money after one year, deposited it in Axis Bank at a fixed rate compounded annually for two years and gets Rs 15480 as the total interest. If the first year's interest at Axis Bank was Rs 7200, then what amount (in Rs) had Tarun deposited in SBI?

A. 45000
B. 40000
C. 48000
D. 50000

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A person invested a certain money in a scheme offering simple interest of 16% per annum and received Rs 736 as interest. Had he invested the amount for 8 more years, he would have got an interest of 3680. What is the amount obtained if the same sum is invested at 9% per annum for 2 years, interest compounded annually?

A. Rs. 2714
B. Rs. 2720.75
C. Rs. 2732.63
D. Rs. 2845.26

Lokesh borrowed 46000 at 10% simple interest payable at 4 equal annual installments. Find the annual installment paid by him.

A. 15000
B. 14500
C. 14000
D. 13500

1. The price of Rajma increased by 40% over the last one year. A person is able to buy 1.5 kg lesser dal for Rs 450 as compared to its price one year ago. What is the current price of Rajma?

A. Rs. 75/kg B. Rs. 86/kg C. Rs. 108/kg D. Rs. 120/kg

2. Instead of a meter scale, a cloth merchant uses a 120 cm scale while buying but uses an 80 cm scale while selling the same cloth. If he offers a discount of 20 percent, what is his overall percent profit?

A. 20% B. 25% C. 30% D. 15%

3. A man invested a certain sum in scheme A at 15% p.a. for 2 years and earned Rs. 19500 as simple interest. He increased his sum by Rs. ‘x’, invested in another scheme B at 10% p.a. C.I. for 2 years, and received Rs. 16800 as compound interest. Find the value of ‘x’.

Answer in comments

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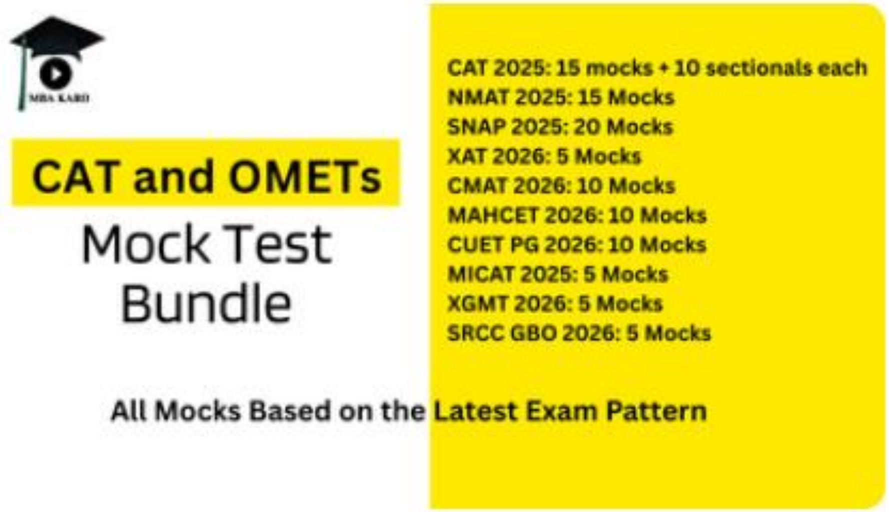
Expires On Nov 30, 2025

₹ 1,500



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