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CLASS 11

# Applied Mathematics

## Chapterwise Important Questions

8 sections | 32 original questions | 2026-27

Read each chapter, attempt the questions, and support explanations with working or textbook evidence.

## Choose a chapter or topic

| CBSE Applied Mathematics | |
|---|---|
| Unit 1 | Numbers, Quantification and Numerical Applications |
| Unit 2 | Algebra |
| Unit 3 | Mathematical Reasoning |
| Unit 4 | Calculus |
| Unit 5 | Probability |
| Unit 6 | Descriptive Statistics |
| Unit 7 | Basics of Financial Mathematics |
| Unit 8 | Coordinate Geometry |

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UNIT 1

## Numbers, Quantification and Numerical Applications

CBSE Applied Mathematics

1. Convert binary 101101 to decimal.
2. Evaluate log2(32) and explain its meaning.
3. A vehicle travels 150 km in 3 hours. Convert its average speed to m/s.
4. Two workers take 6 and 12 hours separately for a task. Find their joint completion time at constant rates.

UNIT 2

## Algebra

CBSE Applied Mathematics

1. Find A union B and A intersection B for A={1,2,3} and B={2,3,4}.
2. Find the 12th term of the AP 5, 9, 13,...
3. How many committees of two can be chosen from seven people?
4. Solve x+y=9 and 2x-y=3 and interpret the result as an allocation problem.

UNIT 3

## Mathematical Reasoning

CBSE Applied Mathematics

1. Write the negation of 'Every student submitted the assignment'.
2. Distinguish a statement from an open sentence.
3. Explain the difference between a condition and its converse using an everyday example.

4. If p is true and q is false, find the truth values of p AND q, p OR q and NOT p.

UNIT 4

## Calculus

CBSE Applied Mathematics

1. Find the limit of $(x^2-9)/(x-3)$ as x approaches 3.
2. Differentiate revenue $R(x)=50x-x^2$.
3. Explain marginal cost as a rate of change.
4. Find the tangent slope of $y=x^2$ at x=4.

UNIT 5

## Probability

CBSE Applied Mathematics

1. A fair die is rolled. Find the probability of an even number or a number greater than 4.
2. Explain the addition rule for events that are not mutually exclusive.
3. A box has 5 working and 2 defective bulbs. Find the probability of a working bulb in one random draw.
4. Distinguish an event from a sample space.

UNIT 6

## Descriptive Statistics

CBSE Applied Mathematics

1. Calculate mean and median of 10, 12, 12, 14 and 22.
2. Calculate population standard deviation of 2, 4 and 6.

3. Explain how an outlier affects the mean and median differently.

4. Compare the relative variation of datasets using their coefficients of variation.

UNIT 7

## Basics of Financial Mathematics

CBSE Applied Mathematics

1. Calculate simple interest on Rs 12,000 at 8 percent per year for 2 years.

2. Find the compound amount on Rs 10,000 at 10 percent annually for 2 years.

3. A product's marked price is Rs 2,000 with 15 percent discount. Find the selling price before any tax.

4. Explain the distinction between nominal interest rate and effective annual interest when compounding occurs more than once per year.

UNIT 8

## Coordinate Geometry

CBSE Applied Mathematics

1. Find the equation of a line through (2,5) and (4,9).

2. Find the distance from (1,2) to $3x+4y-5=0$.

3. Find the centre and radius of $x^2+y^2-6x+4y-12=0$.

4. Explain how a linear equation can model a fixed charge plus a cost per unit.

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