

CLASS 9

MATHEMATICS

NCERT SOLUTIONS

NCERT Solutions for Class 9 Mathematics Chapter 7: The Mathematics of Maybe: Introduction to Probability – Free PDF Download

Chapter 7 of Class 9 Maths Ganita Manjari Part 1 is The Mathematics of Maybe: Introduction to Probability. It introduces probability from an experimental (empirical) point of view — using real data from trials rather than starting with theoretical assumptions. These Class 9 Mathematics Chapter 7 solutions are also...

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Key Terms

An **experiment** (or trial) is an action whose result cannot be predicted with certainty (e.g. tossing a coin). An **outcome** is a possible result of the experiment. An **event** is a collection of one or more outcomes.

Empirical (Experimental) Probability

The **empirical probability** of an event E is defined as: $P(E) = \frac{\text{Number of trials in which E happened}}{\text{Total number of trials}}$. This is based on actual data collected from repeated experiments or observations, not theoretical assumptions.

Properties of Probability

The probability of any event lies between 0 and 1 (inclusive): $0 \leq P(E) \leq 1$.

$P(E) = 0$ means the event is impossible (based on the given data); $P(E) = 1$ means the event is certain.

As the number of trials increases, empirical probability tends to become more stable and closer to the theoretical probability (in later chapters/classes).

Working with Real Data

Probability problems in this chapter often use survey data, sports records, or repeated experiments (like coin tosses or dice rolls) recorded as frequency tables, from which the probability of specific events is calculated directly from the recorded frequencies.

Class 9 Mathematics Chapter 7 – Notes and Extra Questions

Along with these NCERT Solutions, students can also use the [Class 9 Mathematics Chapter 7 Extra Questions](#) and [Class 9 Mathematics Chapter 7 Revision Notes](#) for quick revision and extra practice.

See also: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#) | [Chapter 6](#)

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