

CLASS 10

MATHS

REVISION NOTES

## Class 10 Maths Chapter 14 Probability Revision Notes

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Class 10 Maths Chapter 14 – Probability: Quick Revision Notes

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This chapter covers theoretical (classical) probability only, not experimental probability

$P(E) = (\text{favourable outcomes}) / (\text{total equally likely outcomes})$

$0 \leq P(E) \leq 1$  always

$P(E)=0 \rightarrow$  impossible event;  $P(E)=1 \rightarrow$  sure/certain event

$P(E) + P(\text{not } E) = 1$

Sum of probabilities of all elementary events = 1

Coin toss: 1 coin  $\rightarrow$  2 outcomes; 2 coins  $\rightarrow$  4 (HH,HT,TH,TT); n coins  $\rightarrow 2^n$  outcomes

Single die: 6 outcomes; two dice together: 36 outcomes, sums range 2 to 12

Deck of cards: 52 total, 4 suits  $\times$  13 cards, 12 face cards (4 each of J/Q/K), 26 red + 26 black

“Removed and not replaced” problems reduce BOTH favourable and total counts for the next draw

Reverse (unknown count) problems: set up  $P(E)=\text{favourable}/\text{total}$  as an equation and solve algebraically

Area-based probability:  $P(E) = \text{favourable area} / \text{total area}$

Current 2026-27 syllabus: only Exercise 14.1 (25 Q) — the older Exercise 14.2 has been removed