

CLASS 12

MATHEMATICS

REVISION NOTES

Class 12 Mathematics Chapter 13 Probability – Revision Notes

Probability in this chapter builds from conditional probability up to Bayes' theorem and the binomial distribution, tying together how earlier events shape the likelihood of later ones.

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Class 12 Mathematics Chapter 13 – Solutions and Important Questions

Probability in this chapter builds from conditional probability up to Bayes' theorem and the binomial distribution, tying together how earlier events shape the likelihood of later ones.

Key Formulas

Conditional: $P(A|B) = P(A \cap B) / P(B)$.

Multiplication: $P(A \cap B) = P(A)P(B|A)$.

Independence: $P(A \cap B) = P(A)P(B)$.

Bayes & Distributions

Total probability: $P(A) = \sum P(E_i)P(A|E_i)$.

Bayes theorem: $P(E_i|A) = [P(E_i)P(A|E_i)] / \sum P(E_j)P(A|E_j)$.

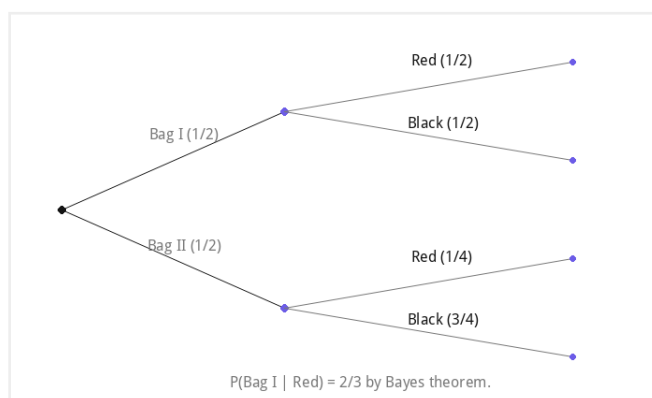
Binomial: $P(X=r) = {}^nC_r p^r q^{n-r}$.

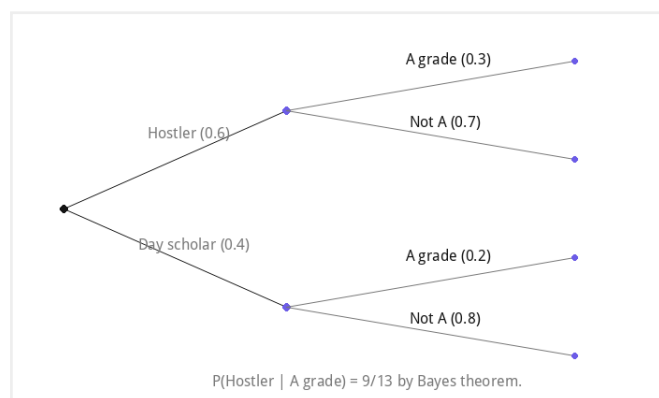
Mean = $\sum x_i p_i$; Variance = $E(X^2) - [E(X)]^2$.

One-Line Summary

Probability in Class 12 builds on conditional probability and independence to Bayes theorem for reversing conditioning, and to random variables/binomial distributions for modeling repeated trials.

Quick visual: a worked diagram from the full [Solutions](#) page, for reference.





Class 12 Mathematics Chapter 13 – Solutions and Important Questions

Need full answers or more practice? See the [Class 12 Mathematics Chapter 13 Solutions](#) and [Class 12 Mathematics Chapter 13 Extra Questions](#).

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