

# Probability Course

## Lecture I

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## session 1

### Experimental probability:-

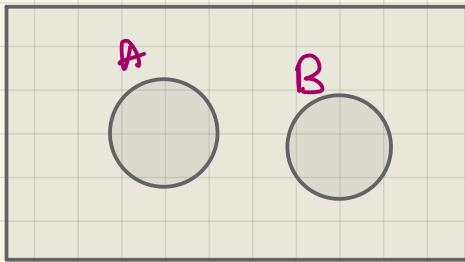
↳ observed by repeating an experiment and observing the outcomes

• Experimental probability  $\neq$  theoretical probability  
⇒ it can be the same if we run the experiment infinity number of times and that is impossible

⇒ probability is basically the frequency

→ Event :- is a subset of the sample space

↙



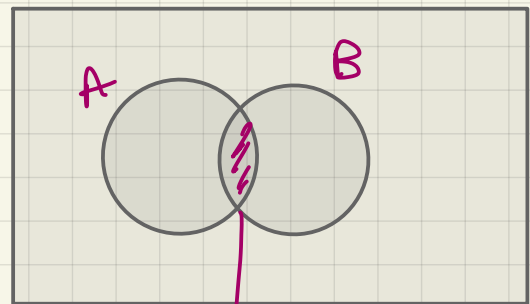
$$A \cap B = \emptyset \quad \text{and} \quad A \& B = \emptyset$$

⇒ mutually exclusive

⇒ disjoint events



↘



$A \cap B$

