

- 1 Introduction
- 9 Basic Terminologies
- 9 Set Operations
- o Addition Rule

9

9 Code: Cropatab

Introduction

5 Assignments (Mandatory)

6 3 Homework O's (Optional)

In-Clare Additional O's

- o Module test o MCQ o 7012
- 9 Mock Interview

gor placement Scaler

Basic Terminologies

(1) Exborrent

Activity that we want to

Expl Deterministic Experiment

Q2+ b2+&ab ----> 49

a=3 b= 4. ?

Expa: Probabilistic Expeniment

 $H \xrightarrow{T \circ AB} H / T$

2 Out comes ?

Possibe Output

Roll a Die <u>Outcome</u>> 313 223 253

3 Sample Space

A collection of all possible outcomes

TORR D 2 H, T3 Dice 0 21, 2, 3, 4, 8, 63

@ Event 7 Any subset of Sample Space

> Ex: Relling Dice, getting Even) Num Ler

Event => } 22,4,63

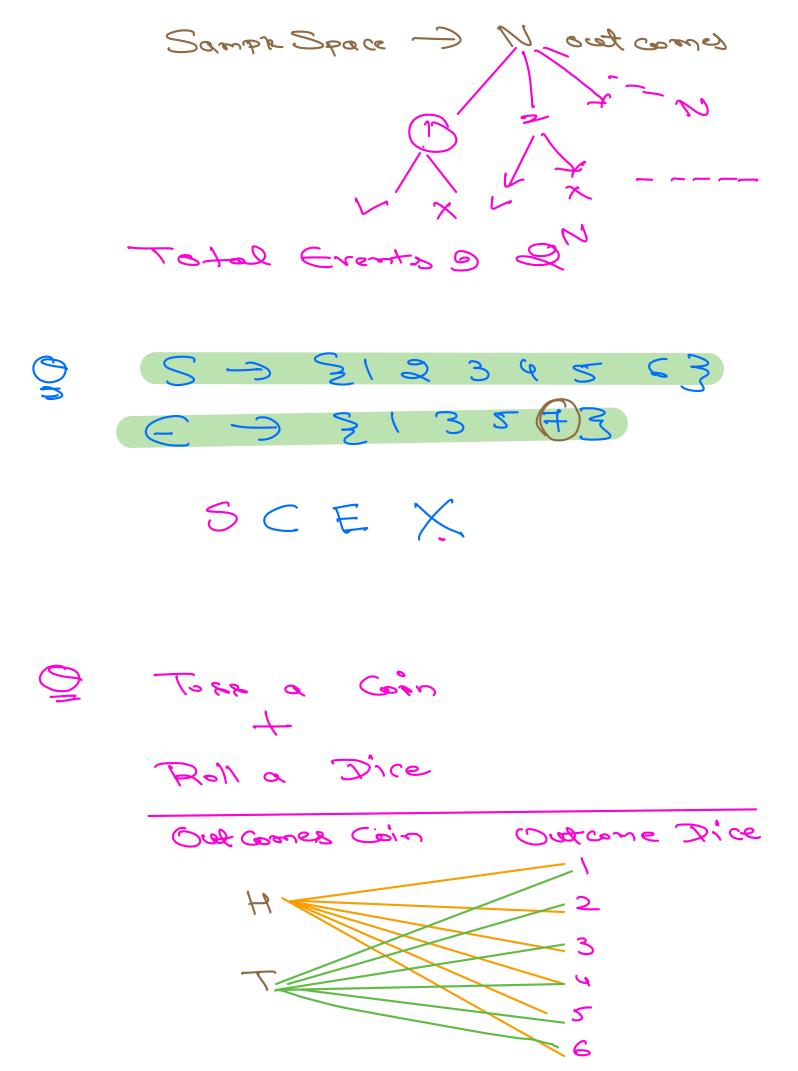
Polled dice → Num > 2
 E → 23, 4, 5, 63

5 Dice of 21, 2, 3, 4, 5, 63

Sample

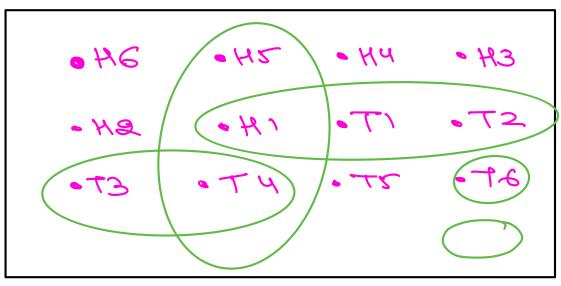
Event 9 & 3 V

Set -> 23 1/



Outcome Com X Outcomes R'a

9 12



Sample Space

- () Event
 - · D Outcome
 - M Samph Space

* Set Operation

Sample Space -> Universal Set Crent - Subsets of

31234663 Besting of Outcome of Dice

1 M.R.t & Odd Humber AD(21353)

@ Rakepho 1,5,00 6 Bo & 1,5,63

@ 4 Phisyek; Gren Nawgord C 9 (2 2, 4, 63)

Bnc 9 ≥3 D. ∈ / ME 6

Outcomes in Event # Outcomes 'm ST

AUB D A + B-ANB

* Diegint Events/Mutually Exclusive Events

E1 N E2 5 & 3

Expansive Event

E, U E 2 0 5

0 MUAUR 3 Sampk Space

* Joint Events/ Non Mutual Exclude

Events

E1 (1 = 2 5) 2/3

Independent Events

Loe can say two Events are

independent if outcome of

Event! does Not Impact

Outcome in Event 2

Toke Dice Roll

H

2

No Impact

5

P(A)B) & P(A) * P(B) PHD 1 & P609 1 · H20 12 Depende 3 ndependent Pick with Replace ment Replacement

AS PASSON SECONDA SECO

Q-1 P CA U BD . Eigher A orion

Ortcomes in Event

AUB 9 12345692 S 9 12345692

PCAUB) 9 1AUB1 9 4
(S)

1 Do Gunt

P(AUB)S PAN+PB)-PANB

Addition Rule

Q Value of P (AUB) in care of
Dispoint/MCE

P(AUB) P(A) + P(B) - PRAB)

Quiz

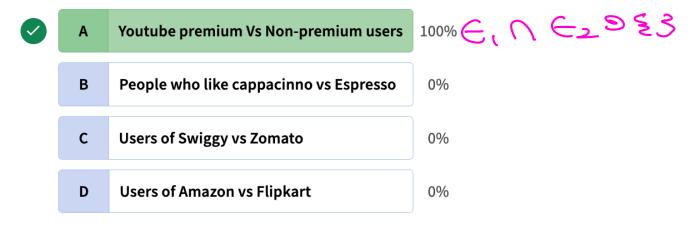
e a

R Q

P(YUB)9 #8 59 6 + 9 12

Q. Which of the following represent mutually exclusive sets?

2 users have participated



End Quiz Now

LE E D G = 3 M



S Not Z-mate 60-200 40% P(SNZ) 9 P(S) - P(SNZ) 9 60 - 2