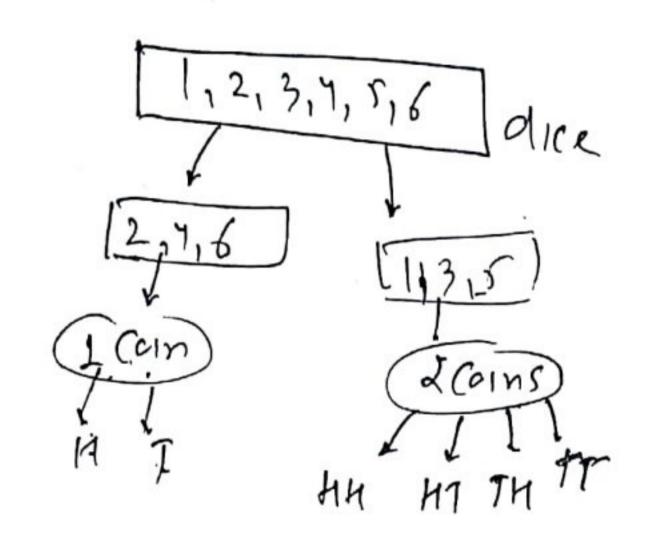
ग स्थाराउम की राद्ये कृत्यां। जम क्रिक शिरा की महाराज !!
ULTIMATE MATHEMATICS: BY AJAY MITTAL
CHAPTER PROBABILITY [Class No:1]
(i) Trial engerment: Touring a corn
(') Front: gety hard /tail
(1) Event AnBn C
(i) P(A) = proby occumency quent A
() P(A) = Puby not con occument of tunt A
(P A) + P A') = 1
(1) Muhally exclusing trents.
$ANB = \phi$; $P(ANB) = 0$
(·) Exhaustie tunk
AUB=5; P(AUB)=1
(1) Myhally exclusive and exhaushur tunti.
$\frac{P(A)+P(B)+=1}{\prod P}$
2 20 40 40 0 C

$$\frac{n_{G}}{m_{G}} = \frac{8 \text{ Noul culy}}{n_{G}} = \frac{n_{G}}{n_{G}} = \frac{n_{G}}{n_{G}}$$

$$\frac{n_{G}}{n_{G}} = \frac{n_{G}}{n_{G}} = \frac{n_{G}}{n_{G}} = \frac{n_{G}}{n_{G}}$$

$$\frac{n_{G}}{n_{G}} = \frac{n_{G}}{n_{G}} =$$

Som



5={ (214) (217) (414), (417), (614), (617), (1,44) (1,41), (1,74), (1,77), (3----), (5,---)

Our 2 + A corn is toked lepeatedly until a head Comes for the first time. Describe the sample space

Som S= {H, TH, TTH, TTTH, -----

Oris 3 A die as thrown Repeatedly until a six comes up Duceise sample specce

(i) A = both Selected Children au girls
(i) B = Selected group consists of one bay & one girls
(ii) B = both Selected group consists of one bay & one girls

(3) C = affecut one of boy

which pais(s) of events is (au) muhally exclusive?

Son S= { B,B2, G,G2, G,G3, G2G3, B,G1, B,G2, B,G3, B2G1, B2G2, B2G37

A= { 6,62, 6263, 6,63}

B= { B,G, B,G2, B,G3, B2G, BG2, BG3}

 $C = \{ B_1G_1, B_1G_2, B_1G_3, B_2G_1, B_2G_2, B_2G_3, B_1B_2 \}$

AMB= & J= & .- ARB all M.E event

BN = { B,G, -- 4+¢ : Bec not M-E even!

ANT = & Y=¢ -- AEC ay M-F. tunto.

One 5 to Three Coins are toked A = gelting three heads
B = gelting two heads & one tail

C = getting three tails D = getting a head on the fint corn

(1) which pairs of eunk an muhally exclusive)

(2) which events are elementary events?

Son 5= { HHH, - - - -

A={HHH}

B= { HHT, HTH, THH}

C={TTTY

D= & HHH, HTH, HTT, HHT

AnB= ¢

Bn(= 4

END= 9

Anc= ¢

A & C au elementay events

BED all Compound tunto.

OM'S A fair Coin as tossed four times, and a person wins Re 1 for each head and loss Rs 1.50 For each fail that tuens up. From the sample Space calculate how many different amounts of money you can have often four tosses and the probability of having early their amounts

-3-5

11.5

NORKSHEFT NO: 1 (PROBABILITY) 11th clay

a clie is thrown. If the die shows up an even number, the die is thrown again what is the sample space of this experiment?

On 2 An empeliment consists of losting a die and then tossing a coin once if the number on the die is even. If the number on the die is even. If the number on the die is odd, the coin is tossed twice. Week sample space

Oni 3 + 2 boys and 2 girls are in foom p and 1 boy

3 girls are in from Q. whith the sample space
for the expairment in which a soom is selected and
then a person.

Ons 4+ An experiment consists of boy-girl composition of families with & children

- (i) what is the Sample space if we are interested in knowing whether it is a boy or girl in the order of their births?
- (2) what as the sample space if we are interested in the number of boys in a family?

- ONS 5-1 A) box contains I led and 3 black balls. Two balls are digun at sandom en succession without Réplacement unité ten sampe space
- which comes up on the dire is noted

A = the sum is even

B= Sum is multiply 3

c = Sum is less than y

D = sum is greater than

which pairs of these events are muhially

Oni 7 + Thru coins an tossed. Dusaine

- (i) two trents A & B which are muhally excluse
- (v) three events A, B & C Which are mechally excluse and exhaustive
- (3) two events A & B which an muhally exclusive but not exhaustre
- On8 + find the probability that a leap year, Selected at landon, will contain

 - (i) 53 Sundays & 53 mondays