lepre ? Mars 291 Feb 3, 2015

C = {9:15, 12:15}

2 = { \$\phi\$, \$12:153}, \$\frac{91:15}{12:153}}

Cand 0 cand 1 cand 2

The prime of combination of early candialized.

Any set A re line $A \in A$ or $a \notin A$ for all dames,

What do we rem by "All claims! Those reads to be a

"Universe of discourse" AKA "Christerse" (AKA "sight space")

In prob & stars) and we denote it "Shi. Ornega. Flower on a, we shall be a leaves of all claims our current stope is branch to

Scope in CS? Your decide what that stope is.

Lot $\Omega = FUm$ (only 7 mm)

Now $F \subseteq \Omega$, $M \subseteq \Omega$. All sets must be subserse of Ω .

Sme 45 & i = 1+2+...+4 I for sets me smind sogether and UAi = 52 Hun the "Set of sero" EA, Az, ..., And is called Collecture cohumne" (Collecticy, they cohum or have, 14 elsem 17 de Chilase) Annother are allered admission If A, O Az = \$ \$ A, Az intelly accome" If AinAj = & Viv, i+j, id., i3, jell., 13 all sets are many orders => {A, ..., An} me muly enduse monly eschon and collected estrapene look that De mare ser gjonnen: Conference F = 52 F = {Bob, Tax, max} F all class up in F

Where is this going? Whis de chance if you pull one 9 have, its a famile?

SLIAC, ANAC, ACAS, AUSZ, AUAC

$$(A \cap B)^{c} = A^{c} \cap B^{c}$$

$$(A \cap B)^{c} = A^{c} \cup B^{c}$$

The considering $N=\{1,2,...3\}$ $Q=\{\{1,2,...3\}, Q=\{\{1,2,...3\}, Q\in \mathbb{Z}, q\in \mathbb{Z}\}\}$

Problem Q has holes , DE 52 & Q (000000)

R= Q V {irrnownes} e.g. VZ, N,e,.

 $(1,2) := \{ \times : \times \ge 1 \ \& \times \le 2 \} \times \in \mathbb{R} \} \quad mm((1,2)) = ?$

(17)= {x: x >1 & x < 7 & x = R} (-00,00) = R

From non en, he will only be proud to see whoe downs are "Outcomes" Pursons are things that occur. It is the sprice of all things her an occar. For 15thme coin tosa Herdoon Tails cu, = H, cus=T HIT EHS, ET3 mut excl? all church? 25 = 2 p ENSET3, WAS clarent 252 as subser of Se, They are called "events" It is more commis so build probably small écons " issue of aucon. Evens are nersome" was the size of Is to determine probability. [S2] = 2 does /H/ mohe sense? No! Bun (EH3) unto sense Oursions a only syouther been to below to crows. $P(\Xi H3) = \frac{|\Xi H3|}{|\Xi I|} = \frac{1}{2}$ P(H) is remargless! P'' down is $2^{\Xi I}$ Our making defining $P(A) = \frac{|A|}{|SZ|}$ Space to kings & A. P(D) = (D) = O What is this every ?

(52) = D What is this every?

hypping is O. P(47083) = P(52) = P(52) = (54 -1) the prob of somety hypery is 1

How my care can we ask when the broked ... phony "?

More topology; two con tosses ordered prins. Each aron is distant

SLX_SC = { HH, HT, TH, TT}

Castesian product (Not on the or early)

[25] = ? Horn may gonom: whis the prob of ...?

PH TT

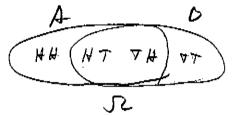
O(HH) = [2443]

P(HH) = 1/21 = 4

les A = & a: a hour at law one 143 = \(\frac{3}{4} \)

P(A) = \frac{3}{4}

les B = { a : a has at lem on 73 = { +T, TN, HT} P(B) = 3

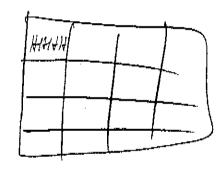


 $P(A \cup B) = 1$ $P(A \cap B) = \frac{1}{2}$ $P(A \mid B) = \frac{1}{4}$

A, B coll. estome?

St (A trosser)

|S2+1=16 |25) = 7 26=64 2 64,000



Para P(HHH): P(HTHT)? Seans the P(FH) should be less by P(2H, 2T). My?

Ω5 som [525]=32 |2525| ≈ 4 billion poursus ger big!!

Commy spe f, Se, If Se = Se, x Sez, 1521= [Se,1/Se] e.g. Lip coi, roll dio SZ (SZ) = (SZ, | (SZ) = 12 | 17 | 27 | 37 | 47 | 51 | 67 | (2) (6) Who if Q \neq Q, \times \overline{\text{SZ}}? Need to learn him to come confident. les FIM be le jours' Sande mu = ET, 12,53 the by any to owne then in the of you? SL= & TMS, TSM, MTS, MST, SMT, STM }, (52)=6 + 33=37 possiler possile possile possile (n-1) ... (1)

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[10] 10 Jacomil Ser 3/= 3-2.1 , a! = Ti How oher 5 people? 1521 = 5! = 120 10 pyle? = 3.6 m 2.7.1032 = diam (surse) 20 payle? This type of style space I called perminons"

Gran a sext objects, how may was so arraye stom? IA! Nomm 10 % CApage 10 chis # gaple ≥ this to de above somme Mor if # chin < # page? less of 10 puple, 1 chow $\frac{10}{4} f^{194} clas = \frac{10!}{9!}$ passilis 11 2 chm 10 · 9 = 10's 10.9.8.7.6 = 10! Prosum ... in Pr = (4-4)! First engle $h P_n = \frac{h!}{(n-n)!} = \frac{n!}{o!}$ 5 Gils toyoh is capter altrong

5