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	[Statistics -class 47
	[Statistics - alay 4]
	Topics & Lord 41 2016 for 9 more
	The state of the s
	1 central limit theorem
	@ Probability = prization = 1
	(3) Permutation and Combination
	a covariance, Pearson correlation,
	Spearman Rank correlation.
	25th o pailed (b)
	1 - (1)9 1 - (1)9
C	
	1 harris - St the way
	Size of sample =n
	Conssian rot samples = m
	2 = 5 x,   22, 23 3 = x,
40	= S2 = {x, x2 x3 } = x2
3	and and and and
-	= vividado ? [ " ) S3 = { x, x_, x_, x_, x_, x_, - 3 = 23
	- uff of the draw the mean
	Skerness Of all Samples
1	ME IL PUISMONS MIDITION STUDIES ONLE
	it shows Lawssian
	alistribution'
	4135 D WISSON (C)
	for value
150.9	[n ≥ 30]
	word toman lust
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	(2) Probability!
*	measure of the likehood of an
	event.
	O central visit otherson !
	Pig. 30 tossing a fair coin
	notholdono) lono nottotumes (8)
	$P(H) = 0.5 \qquad P(T) = 0.5$
1.00	@ Polling a dire
	$P(1) = \frac{1}{2} P(2) = \frac{1}{2} etc.$
	innosti dinil lotas s
10000	why it is used!
084	suppose re have
K= 5	* * * * * * * * * * * * * * * * * * *
	to Boint Pelong
x = 9	* X X
	ansver lie above
至中户	having Probability = 0.7
MALE A	Omutual exclusive events!
	22 mars 10 70 10 10
	of the events mutually exclusive if they
	cannot occur, at the same time.
18/402	
	e.g. tossing a coin
pelow	head fail
1085	if head comes then
7.25	tail connot occur

Date.
2 Rolling mardice
if come in dice then other
numbers cannot occur?
Mon-motual excustory
picking randomly a card from a dice
deck of cards the events
"neart" and "king" can be selected
To got widendous and a today and and
indire Problems is that advant of prisopols
@ what is the Probability of coin
landing on heads or tails
The state of the s
Addition rule for mutual exclusive evente
2- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
P(A or B) = P(A) + P(B)
0.2 4 0.3
@ what is probability of getting
1 or 6 or 3 while rolling a dice
Coord has trend ?
P(1006003) = P(D) + P(E) + P(S)
= 1 -1 -1 = 3 = 1
The second of th
The second of th

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	1 1 surface Frent!
	non mutual exclusive event!
	events are non mutual exclusive
ice	extras are ros
	if they occure at some time
	savtada ka tastina soll
المادم	Bag of Marbles = 10 red, 6 wreen
	2 (R&4)
المادة واحط	and more attended to the second to
	when picking randomly from a bag of
	marbles what is the Probability of
	chossing a marble that is red and green]
-	o on third start and although of
	Addition Nle'-
Jan D.	OP(A or B) = P(A) + P(B) - P(A and B)
	= 13 -19 -3
	= 13 -1 9 -3 19 19 19 19
	= 13 -19 -3 $= 19$ $= 19$ $= 1$
	$= \frac{13}{19} - \frac{9}{19} - \frac{3}{19}$ $= \frac{19}{19}$ $= \frac{19}{19}$
	= 13 -1 9 -3 19  19  19  P(peart or green) = p(neard) -1 p(aveen)
	= 13 -1 9 -3 19 19 19  19  P(heart or green) = p(heart) -1 p(queen)  - p(heart and queen)
	= 13 -1 9 -3  19  19  19  P(heart or green) = p(heard) + p(aven)  - p(heart and queen)
	= 13 -1 9 -3 19 19 19  19  P(heart or green) = p(heart) -1 p(queen)  - p(heart and queen)
	19 19 19  19  19  19  P(heart or green) = p(heart) + p(aven)  - p(heart and queen)  = 13 + 4 - 1  = 12 52 52
	= 13 -1 9 -3  19  19  19  P(heart or green) = p(heard) + p(aven)  - p(heart and queen)
	19 19 19  19  19  19  P(heart or green) = p(heart) + p(aven)  - p(heart and queen)  = 13 + 4 - 1  = 12 52 52
	19 19 19  19  19  19  P(heart or green) = p(heart) + p(aven)  - p(heart and queen)  = 13 + 4 - 1  = 12 52 52
	19 19 19  19  19  19  P(heart or green) = p(heart) + p(aven)  - p(heart and queen)  = 13 + 4 - 1  = 12 52 52

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	Multiplication Rule:
. 6	1) Dependent event! is they affect
	one another then
- K	it is dependent event.
	Sheupers grant &
	Ban OF marble = (00007) 4 white
	apitalument in the sol
	if I white marble selected then
	p(w) = 4 and [total = 7-1=6)
	7
12	Then 2 10 4 90
	P(w) = 31(m)
	. 6
	example, that is the probability of rolling
	a "s" and then a "3" with a
	normal: 6 sided dice?
	) Independent
	P(1) = 1 $P(2) = 1$ $P(3) = 1$ $P(3) = 1$
	- lacit midmo) ?
	P(A and B) = P(A) & P(B)
	= = = = = = = = = = = = = = = = = = = =
	- O Grants
1	P(A and B) = 1
	(10) 18 1 (HA) 14 36
8	

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	permutation: - 109 and and all	
+20	in how many horys 5 chocklets	
and	to Atlant and	
	= & Dainy milk, kit kat, milky bar, g	
	Sneakers, 5 star 3	
	A Fide NA Coop of a delam go pos	4
	1011-1 = S x 4 48	
	= 160 may permutation	
	and harry and som office of it	
(2=	formula is!	
	The state of the s	
	rp = 01 5/ 12 × 5/ 491	
	$\frac{n}{(n-r)!} = \frac{n!}{2!} = \frac{x}{3!}$	
	The Huldward Att 21 to 5xyx3x25	
6.1	thin "s" north home ">" not	
	cardo lostiz a l'organ	
	2 bo 3 q 2 - 6 o	
14 17		
- 3	Combing tion!	
	1000 - 1000 - 10 has 10 has	
	Repetation is not allowed:	
	formula: -	
		P
	$\frac{n!}{r!(n-r)!} = \frac{5!}{3!(e!)}$	
	7, 31(2)	
	= 5x4x21	
	= 5x4x31 = 20 31x21 = 2	
	Tren 2 10 mays?	





