		ربادی اد) NICE-1	तोत्
	נים טו צתים.	מה לידות -תיאונ	1 1/125	.k
	ع كرونه.	וליצות - תיאלמי	N 1/300	
		ב לתיאום במני:	MONOI)	
$\frac{1}{2} \times \frac{1}{125} + \frac{1}{300} = \frac{300 + 250}{75000} =$	NI: 000 - 120 S	ותיאום ואותו	הסתקרור	
		חות פים:		
$P(A B) = \frac{P(A\cap B)}{P(B)}$				
	$\frac{1}{300}$	13-1		
$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} = \frac{\partial}$	11	WZ.		
	1200			
Bowl 1: 10 a cookies, 3				G.
Bowl 2: 20 a cookies, 2	20 c cookies.			
P(chocolate from bowl	1) = 3/4			
P(chocolate from bow)	12)= 44			
P(bowl 1 chocolate) = (3)	14)/(5/4) =	315		
P(yellow n 1994) * P(green n 1996	$a_{2} = (0.2)(0.2)$	= 0 04		
P(yellow 1996) x P(green 19				
P(19941 yellow) = P(1994 (1200) - 0.	054 = 54 =	0.741	
1.90				

statistically 1/1000 has the flu 3 99% accurate (1% that a healthuf person would be told he's sick). आहेर जिल्ला हो। विकार कार कार कार कार अधिक कार अ P(Not having flu | testing pos) = 0.01 P(testing positive) = p(poslflu) × p(flu) + p(poslnealthy) × p(nealthy) = 890010.0 = (0.000) + (0.01 * 9999/10000) = 0.010098P(having the flul positive) = P(having flus 1 positive) = 0.0098 = 0.98%. P(having the flw & positive) = \frac{1}{200} O. P (POSITIVE) = 200 + 100 P (having the flu | Positive) = (1/200)/(3/200) = 1/3

1/200 identical twin 1/125 not identical tu				.4
$P(samesex) = \frac{1}{2}$	× 1/25 + 300 =	300+ 250 ₂ 2 75000 ³	2 000 = 11 000	
P(Identitical Itwins) =	1 300 = 5 11 1500	0.4545		

Random variables

1. 2 six sided dice: if sum 13 wins 6\$

sum divisible by 3 can be: 3, 6, 9, 12

If sum 13 loses 31

sum can be anything other than above.

the probibility of sum13 is 4/12

therefore sum of sum t3 is 8/12.

- => Expected value = $(6)(\frac{1}{3}) + (-3)(\frac{2}{3}) = (2) + (-2) = 0$
- 2. bellow 12 = 1+6, 2+6, 3+6, 4+6, 5+6,

1+7,2+7,3+7,4+7,

1+8,2+8,3+8,

1+9,2+9

1+10 => 15 options

exactly 12 = z+10, 3+9, 4+8, 5+7 => 4 options

over 12 = 10+5, 10+4, 10+3,

9+5,9+4,

3+5 => 6 options

⇒ P(over) = 15/25 , P(exactly) = 4/25 , P(bellow) = 6/25

=> Expected = 5(6/25) - 6(5/25) = -2.45

mean = 0.4 × 8 = 3.2

Standart deviation = 1 (0.4) (1-0.4) 18 = 0.1732

4. formula to calculating z score is (x-mean)/sta

=> P(26< x<30) = P((26-26)/2) < x < ((30-26)/2)

= P(0 < x < 2) = P(x < 2) - P(x < 0) = 0.97725 - 0.5 = 0.477

- 5. $P(x>3) = \frac{1}{2}(2)(0.4) = 0.4$
- 6. $500 \times 0.6 = 300$ employees have kids. $(\frac{4}{3})(0.6)^3(0.4) = 0.3456 = 0.38$
- 7. (-10)(0.1) + (-5)(0.35) + (0)(0.1) + (5)(0.35) + (10)(0.1) = (0)