Memme of worked tendency n= Samile size 1 Sample Nem = = x1+x2-+x1 N = PCP. 513e Topulation werm M = 2,12 - + 200 Adding C MM = OM + C * Sentitive to circliens MUNITYC NM - OM # C Medium - doda in Increasing order (must have order torrown order or more order) or more not now order or more not normal or met normal or the torrown of the normal order or more order (lems -odd M= n+1 H Hem A not sensitive to cidling (5- Made -adding c = MM = CM+C mulline MM - CM XC (3) Made - mest frywint - Nother and more them one ne made adte MM = CM70 mulc NN = CM * (Meinme of dopenin Runge - Mar - Min semilye to enthals 1 Vaniance PP J2 = (21-M3)2+(22-M)2 - +(24,-M) Semille si = (x,-x)2+ (x+x)2 N Adding a New = add Nucliph = c2 x ch Volume

18 34 (N Adding c James Fld - by = V Sample VAKING New - old S = \((2,-\)2)2+(2,-\)2)2- + (2,-\)2) muliply (hew = (+ old N-1 N-1 N-1 N-1 (7 Peruntil - Amonge duter in he andor number 10 parent public P 6, = 25 43= 75 - Find np is n-2h - 1 ind not int it no net interes pos is smalled int > AP prone If no Interval - Hint Mat np-11 wedien 19R= 93-91 outlies < 9, -15142 017 43-11-510R Mainuce of concuention Population : covery = $\xi_{z}^{N}(x_{1}-\overline{x})(y_{1}-\overline{y})$ $\frac{2}{n+1}\left(x_1-x_2\right)\left(y_1-y_2\right)^{N}$ Simple Cou

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(9) comelidan neimbre of hiner consultation $= \frac{\operatorname{Cov}(x,y)}{\operatorname{S}_{x},\operatorname{S}_{y}}$ $v = E \qquad (x; -\overline{x}) (y; -\overline{y})$ V=" (x,=x)2 V=" (y,-y)2 10 weighted men M = Mm Pm + M+ Pt Pm+7t = 100%. (1) point bi serial conclusion wethernt 1pb = (5, - 5,) TPoP, To count fot (mem v) P1 Cout (mem) Sx 8td dev of all romable Permutedian & combined wh (2) Addition rule: Action A 11 different would Action B nz different wery Total no of actions AORB is nitnz (3) Mustoplication rule: y - actions performed in a definite order ni - possibilities for it action n2 - 11 for 2nd action Then MX 12 X M3- - My possible for Josetha for Vanduns tolal cutum Aand B = manz

(14) Pomutodin! ordered alrongenent at all or some collection of a distinct objects $P(n,r) = \frac{n!}{(n-r)!}$ permedendant not diotent 1! Pz is another bird P. ! Pz! total arrangements. (16) Permuterdus: Circulus. C clockwise 2 and; are different) = (n-1)] (17) when clockwise & And the some (1-1) no of parible combinatury v from a n district objects $\frac{n(n)}{n-1} = \frac{n!}{(n-1)!n!} = \frac{n}{n} = \frac{n!}{(n-1)!n!} = \frac{n!}{(n-1)!} = \frac{n!}{(n-1)!}$ (9) Selecting v objects from n = rejectly n-v from n 20 1 (n21 n (0 = 1 ncy = n-10 + n-10 1 1576 n week & Thotalouly

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(I) robubility of mound disjoins even) p(E10(2)=p(G)+P(G)

(PCE) = HPCE) P(\$)=0 A.S-+ (23) Addition mle P (AUB) = P(D)+P(B)-P(ANB) CO P (DUB) = 1 mak 8: conditional Probability $\mathbb{P}\left(\frac{1}{\xi}\right) = \mathbb{P}\left(\frac{1}{\xi}\right) = \mathbb{P}\left(\frac{1}$ 29 CP- mudiphadion onte p(Enf) = p(f). p(f/f) Gren multiplication me P(Einfantg--nfn) = PE, xp(Eile) x p(+3/cine2) - Xp(En/cine2-nEn-1) (2) I ARB events are Independent pcanb) = pca) x pcb) (28) Land of Joseph mutablist p(E) = p(Enf)+p(Enf) D(F) = D(E/E) · P(E) + D(E/E) P(E) 1) Fi, Fz Iz -- In one mutually exclusive Exchantive p(E) = p(E/F1) P(F1) + p(E/F2) p(F2) -- + P(E/F2) P(F2) Baye's Pule P(f|E) = P(E|F) - P(F) P(F|E) = P(E|F) - P(F)