Wednesday • DECEMBER Binomial handom Variable A variable X is said to Binomial if Oil is discrete, 2) Sample Site is fixed (no of trials fixed) on each trial, event is success or failure. trials are independent probability of occurence the same on each trial. (X = x) = y (x = x) = y (x = 0, 1/2, ...)where 91=1-6 2020 p is probability of Success

Binomial random Variable A Variable X is said to Binomial if Oil is discrete, Sample Size is fixed (no. of trials fixed) 3) on each trial, event is (4) trials are independent (5) Probability of occurrence 9 the Same on Each trial. Where 9=1-1 Pig probability of Success 2020

Example of 20%, of the bolts broduced by a muchine are found to be defective. Determine the Probability that out of 4 bolts chosen at handom (a) one (b) 7ero E at most two will be défedire. M= H = no. of bolls (fixed) X: no. of bolls are that will are defective. 2020

$$P(X=1) = 4(02)(08)$$

$$O$$
 $P(X \le 2) = P(X = 0) + P(X = 1)$
+ $P(X = 2)$

DECEMBER • Saturday

NCχ

$$+ UC_{2}(0.2)^{2}(0)$$
ial Rov.
$$E(X)$$

$$Mean = E(x)$$

$$= 0$$

$$-C - lo(x) = npq$$

$$\frac{1}{6}$$
Variance(x) = npq

27 Sunday

DECEMBER • Tuesday

Poisson random Variable Happening of an event a Certain number of lines 10 given interval pmf for poisson dist average value per anit lime

2020

15 21 22 23 N 28 29 30 31 MK 01 1369-001 An average of 0.61 soldiers died by horse kicks per year in each Prussian army corps. you want to calculate the probability that exactly tion soldiers died VII army Corps 1898 . 7=0.61 X: Number of Soldiers duced in an almy Cops. $P(x=x) = e^{\lambda} x^{x}$ 12 (x=2) = -1,2 2020

31 (366-000) WK 01

2020

DECEMBER • Thursday

Name, Address & E-mail Phones / Mob/Fax 6,9 er 8 of them Contain error X : no. of persons making numbered n = (0000 2 = np = loosox b = 1000 2=10 P(6-6× < 8) = P(x=6) + P(x=7) + P(x=8) $\frac{-10.66}{e^{10}} + \frac{-7.7}{e^{10}} + \frac{-8.8}{12}$

D/E/F Name, Address & E-mail Phones Mob./Fax naverage, a text book author makes here word proceshing chrow per bagen the first draft of hor text book, what is the slobability that on the next page She will make a 4 or more errors no erroy fewer than 3 ess ors at least 2 errorg. A Scentist inoculates mice, one at a line, with a disease germ until he finds 2 that have contracted the disease

Name, Address & E-mail Phones Mob./Fax of the peobalitity of Contracting the disease is 1/6. What is the probability that 8 mile. required?