1) 5=52 cords

[3 cards are drawn without replacement]

= P[sono diamond, one heart, one spade]

= P[diamond] x P[hoart] x P[spade]

= P(13/52) x P(13/51) x P(13/50) Pleiamond + Placast

= 13/52 × 13/51 × 13/50

= 1/4 x 13/61 x 13/60

= 0.0165

P(oretion movies) = 42/100 -> P(A)

P(45mody movies) = 54/100 -7 P(B) P (consider movies) =

P(drama movies) = 36/100-7 P(1)

P(horror movies) = 12/100 -> P(0) P(Rnc) = 0 P(B10) = 0

P(A) + P(c) - P(Anc)

Fither action or drama movies = 42/100 + 36/100

= 78/100

0.52 + 0.524 + 0.59

Plaction movies):

Pl drama movies):

= 0.78 PLB) + PLO) - PLBOD) Eithor comody or homor movies = 54/100 + 12/100 -0

= 66/100

= 6 O-66

BogB

ustile = 4

Black = 7

$$P\left(\frac{B}{Block}\right) = P(B) \times P\left(\frac{Block}{B}\right) + P(B) + P\left(\frac{Block}{B}\right) + P(B) + P\left(\frac{Block}{B}\right)$$

$$= \frac{7/22}{\frac{110+112}{352}} = \frac{7/2}{22} \times \frac{352}{222}$$

$$= \frac{2464}{4884} = 0.50450$$

$$P(\frac{B}{Block}) = 0.50450$$

136 - 1361

Giv: -

450 applications in Thous

By poisson distribution

11/2 = (20018) d / 3/5 P(x=x) = e -15/2 . (15/2) 17 (45013) 9 x (8/9 - ((43018) 4 + (8/14) + (430) + 9/4/18 22 81 ["IL 181] 1 [Slow 31] 1/28 = 1/22 × 352 110+1112 = 1/22 × 282 352 4884 = 0.50\$ 50 10(Black): 0.20+20

01 (3/51)

101

$$2 = \frac{X - NL}{8}$$

$$0.875 = \frac{X - 350870}{12405}$$

$$X = 25.000$$