1) courds = 52 Diamond = 13

Heavit = 13

Spade = 13

Required porobability=1301×1301×1301

= 13×13×13 52×51×50

> =2197/ 132600 =0.0165

2) Action Movies = (12.1- >P(D)

comedy movies = 54%. 218CB)

Dorama Movies = 367. ->PCC)

Howaron Movies = 12-1. ->P(0)

a) Eithor action our Durama

(2004) 9 - (2004) = C204) 9 (AOC)

=42+36-0

P(AUC)=78/100 FO:78

P(A) = P(B)=1/2

P(B/A) = porobability of black ball foram byo bogs.

$$= 1/2 \left[\frac{5}{8} + 7/u \right] = 1/2 \left[\frac{55+567}{88} \right]$$
$$= 1/2 \left[\frac{11}{88} \right]$$

u) Given U50 application in Thous By poisson distoribution. a) 1=45 X=15/2 (\$=00 P(x=x) = e-15/2 - (15/2)10 (0) -0.0858 b) P(x=x) = e-15/2. (15/2)17 171 = 0.6321 6)75th percentile balue:? Accorage = \$ 350870. 8t. D=\$12405 Percentile value : Accordage +(ZX S.D) where 2=> 2 table value Cz value foor 75th percentile =0.67)

= 350 870 + 8311-35

= 3508 70+ (0.67 x12406)

75th perentile = 359181.3511

a interplace of a series

on the state of th

1 1 12