· 1003 (1

i) usoln:

BAGB

S = 52 cards (without supparement) (3 cards drawn')

Plane roard is diamond, one land is heart, one land is spade) Mr = (18,8)9/

= P(Piamord) x P(heart) x P(sprode)

 $=\frac{13}{52}\times\frac{13}{51}\times\frac{13}{50}=\frac{169}{10200}$ 

2) Soln:

Action Movies = 42%.

Compely Movies = 54%.

Drama Novis = 36-1.

a) p (action (or) drama) = P(Action) + P(Orama)

b) P (comedy con) horron) = P(comedy)+P(piorron) )

30401 = 3-12405

[++ =] - j = :

83 = 2

1 100%, 1

(1) Silv

P(Black) = P(ANB) + P(BNB) 9 = (brancia) 9 -

$$=\frac{1}{2}\left[\frac{55+56}{88}\right]$$

$$=\frac{1}{2}\left[\frac{111}{88}\right]$$

$$P(B) = \frac{P(B \cap B)}{P(B)} = \frac{1/2 \times \frac{7}{11}}{1/2} \times \frac{1}{11} \times \frac$$

75th Rescontile ovalue = ? 100) 1 = (remail (red placement) 3 (2)

Percentile Value = Average + (2×50)
where, 2 = 7 \$\infty\$ 2 table Value

(2 Value for 75th Percentile 3 = 0-67)

= 350870+ (0.67x12405)

= 350870+8311-35

75th Percertile = 359181.35

4) doln:

450 Applicante in 1 hours

a) 
$$\lambda = \frac{450}{60}$$
 $\lambda = 15h$ 

$$P(x = \pi) = \frac{e^{-15h}}{6!} \cdot (15h)^{10}$$

=0.0858

=0.6321