$$P = 13c_1 \times 13c_1 \times 13c_1$$

$$= 50c_3$$

$$= 13\times 13\times 13$$

$$= 2197$$

Horror moves = 121.

P(Action or drama) = P(action) + P(drama) - P(Action + orama)

$$= \frac{42}{144} + \frac{36}{144} = 42 + 36 - 0$$

$$= \frac{78}{1444} = 78/100$$

$$= 0.78$$

$$= 0.5416$$

b) P (either comody or horror)

= P(comody) + P(chorror) - P(comody & horror)

= 54+12-0

= 66 /100 = 0.66

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

P (Black) = 5/8

P (Black) = 7/11

P (Black) = P(B) × P(Black | B)

P(A) × P(Black) + P(A) × P(Black | B)

=
$$\frac{1}{2}$$
 × $\frac{7}{11}$ / $(\frac{1}{2}$ × $\frac{5}{8}$) + $(\frac{1}{2}$ × $\frac{7}{11}$)

= 7/22

$$= \frac{7/22}{5/16+7/22} = \frac{7/22}{110+112}$$

$$= \frac{7/22}{352}$$

$$= \frac{7/22}{22} \times \frac{352}{222}$$

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

- 6.5045

percentele

4) By poesson destrebution:

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

$$\lambda = \frac{15}{2} + 2 = 10$$

$$P(X=x) = e^{-15/2} (15/2)^{10}$$

b)
$$P(x=x) = e^{-15/2} \cdot (15/2)^{17}$$