1.).

2.

Carids = 52

Diamond = 13

Heart = 13

Spade = 13.

p(E, E) = 7/11

8/2 = C19, A)9

P(Plack) = P(ANA) + P(BNE)) Probability = 13C, x 13C, x13C,

A white bell . I Black both

A par

Syed love & Elect

P(A) = P(B) = YA

Protoability = 10.0165 (1811)

Comedy movies = 54%.

Drama " = 36:1.

Horror movies = 12-1.

9 = 144

Auton movies = 421. P(Comedyor horror)

= 54+12 00

Average

P(comody or horror) = 66.

Plantion or drama = 42 + 36 = 778

Plaution or dvama) = 0.5416.

Bag A 5 Black 3 red ball

philadelphia Rag B 4 white ball I Black ball

Probability

$$P(A) = P(B) = \frac{1}{2}$$
 $P(A,BI) = \frac{5}{8}$
 $P(B,BI) = \frac{7}{11}$

P(Black) = P(ANBI) + P(BNBI)

$$P(\frac{B}{Bi}) = \frac{P(PNBi)}{P(Bi)} = \frac{1}{2} \times \frac{7}{11} = \frac{8}{11}$$

15th peruentile value =?

Parlentile value = Average + (7 x s. D) - 350870+ (0.67X1Q405)

4.
$$a$$
). $A = \frac{456}{289}$
 $\lambda = \frac{15}{2}$, $\chi = 10$
 $\lambda = 10$

Reject the null hypothesis and anept the alternative

hypothesis.