STATISTICS TEST

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U) S=52 coolds. (without Replacement).

Plone card is Diamond, one card is heart, one card is spade)

= P(Diamond) x P(heart) x P(spade)

$$= 18 \times 13 \times 13 = 169$$

$$50 \quad 50 \quad 10200$$

$$P(Black) = P(ANBD + P(BNBD)$$

$$(OY) = \frac{1}{2} \times \frac{5}{8} + \frac{1}{12} \times \frac{7}{11}$$

$$P(BI) + \frac{1}{8} \times \frac{7}{11}$$

$$= \sqrt{2 \left[\frac{8}{5} + \sqrt{11} \right]} = \sqrt{2 \left[\frac{88}{55 + 56} \right]}$$

$$\frac{P(B)}{P(B)} = \frac{P(B \cap B)}{P(B)} = \frac{1/2}{11} \times \frac{11}{11} = \frac{7}{11} \times \frac{8}{111} = \frac{56}{111} / 1.$$

6) 75th percentile value =?

Average = \$850870.

St. D = \$12405.

percentile value = Average +(z x S.D)

where Z > Z table value.

(Z value for 75th percentil=0.64)

= 350870+(0.67 x12405)

= 350870+8311.35

75th percentile = 359181.35/1.

2) Action Movies = 42%.

Cornedy movies = 54%

Drama Movies = 36%.

Horror movies = 12%

a) P(action (or) Drama) = P(Action) + P(Drama) $= \frac{42 + 3b}{144} = \frac{78}{144}$

b) P(comedy (or) Horror) = P(comedy) + P(Horror)

= 54 + 12 = 66

KING OF BAILEY

4) 450 Applications in 1 hour.

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By Poisson Distribution,

$$a) d = \frac{450}{60} = \frac{15}{2}$$

$$P(x=\infty) = e^{-15/2}$$
 $= 0.0858.$

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

= 0.6321.