

## **BCM 411: MANAGERIAL STATISTICS – CAT**

- 1. In a recent survey, 90% of the homes in a city were found to have colored TV's. In a sample of nine homes, what is the probability that:**

Overall distribution to be applied.

X has a binomial distribution with  $N=9$  and  $p=0.9$

$$\text{Therefore, } P(X=x) = \frac{N!}{x!(N-x)!} p^x (1-p)^{N-x} = \frac{9!}{x!(9-x)!} 0.9^x (0.1)^{9-x}$$

### **i. All nine have colored TV's?**

$$P(X=9) = \frac{9!}{9![0]!} 0.9^9 (0.1)^0 = 0.9^9 = 0.3874$$

### **ii. Less than five have colored TV's?**

$$P(X < 5) = P(X=0) + P(X=1) + P(X=2) + P(X=3) + P(X=4)$$

$$P(X=0) = \frac{9!}{9![0]!} 0.9^0 (0.1)^9 = 0.000000001$$

$$P(X=1) = \frac{9!}{1![8]!} 0.9^1 (0.1)^8 = 0.000000081$$

$$P(X=2) = \frac{9!}{2![7]!} 0.9^2 (0.1)^7 = 0.000002916$$

$$P(X=3) = \frac{9!}{3![6]!} 0.9^3 (0.1)^6 = 0.000061236$$

$$P(X=4) = \frac{9!}{4![5]!} 0.9^4 (0.1)^5 = 0.000826686$$

Therefore,

$$P(X < 5) = 0.000000001 + 0.000000081 + 0.000002916 + 0.000061236 + 0.000826686 = 0.008331094 \approx 0.0083$$

### **iii. More than five have colored TV's?**

$$P(X > 5) = 1 - P(X \leq 5)$$

$$P(X \leq 5) = P(X=0) + P(X=1) + P(X=2) + P(X=3) + P(X=4) + P(X=5)$$

$$P(X=5) = \frac{9!}{5![4]!} 0.9^5 (0.1)^4 = 0.007440174$$

The other probabilities are as computed in (ii)

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**Pavur Kvanli, Cram101 Textbook  
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