

32: Binomial Distributions



REINFORCEMENT PROBLEMS 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 32.10, 32.11, 32.12, 32.13, 32.14, 32.15, 32.16, 32.17, 32.18, 32.19, 32.20, 32.21, 32.22, 32.23, 32.24, 32.25, 32.26, 32.27, 32.28, 32.29, 32.30, 32.31, 32.32, 32.33, 32.34, 32.35, 32.36, 32.37, 32.38, 32.39, 32.40, 32.41, 32.42, 32.43, 32.44, 32.45, 32.46, 32.47, 32.48, 32.49, 32.50, 32.51, 32.52, 32.53, 32.54, 32.55, 32.56, 32.57, 32.58, 32.59, 32.60, 32.61, 32.62, 32.63, 32.64, 32.65, 32.66, 32.67, 32.68, 32.69, 32.70, 32.71, 32.72, 32.73, 32.74, 32.75, 32.76, 32.77, 32.78, 32.79, 32.80, 32.81, 32.82, 32.83, 32.84, 32.85, 32.86, 32.87, 32.88, 32.89, 32.90, 32.91, 32.92, 32.93, 32.94, 32.95, 32.96, 32.97, 32.98, 32.99, 32.100

PROBLEM 32.1: COIN TOSSES

1. A coin is tossed 10 times. Find the probability of getting a head 7 times.

Sol. When a coin is tossed, the probability of head is $p = \frac{1}{2}$ and $q = 1 - \frac{1}{2} = \frac{1}{2}$.

As the coin is tossed 10 times, we therefore obtain a series

$$P(X) = {}^{10}C_0 p^0 q^{10} + {}^{10}C_1 p^1 q^9 + {}^{10}C_2 p^2 q^8 + \dots + {}^{10}C_{10} p^{10} q^0$$

Required probability = $P(X = 7) = P(X = 0) + P(X = 1) + P(X = 2) + P(X = 3) + \dots + P(X = 7) + P(X = 8) + P(X = 9) + P(X = 10)$

$$\Rightarrow P(X = 7) = {}^{10}C_0 + {}^{10}C_1 \left(\frac{1}{2}\right)^0 + {}^{10}C_2 \left(\frac{1}{2}\right)^1 + {}^{10}C_3 \left(\frac{1}{2}\right)^2 + \dots + {}^{10}C_7 \left(\frac{1}{2}\right)^7 + {}^{10}C_8 \left(\frac{1}{2}\right)^8 + {}^{10}C_9 \left(\frac{1}{2}\right)^9 + {}^{10}C_{10} \left(\frac{1}{2}\right)^{10}$$

2. A coin is tossed 10 times. What is the probability that a head appears an even number of times?

Sol. Here, $P(X = 0) = \frac{1}{2}$ and $q = \frac{1}{2}$

$$\therefore P(X = 0) = {}^{10}C_0 \left(\frac{1}{2}\right)^0$$

Probability of head even number of times

$$= P(X = 0) + P(X = 2) + P(X = 4) + P(X = 6) + P(X = 8) + P(X = 10)$$

$$= {}^{10}C_0 + {}^{10}C_2 \left(\frac{1}{2}\right)^2 + {}^{10}C_4 \left(\frac{1}{2}\right)^4 + {}^{10}C_6 \left(\frac{1}{2}\right)^6 + {}^{10}C_8 \left(\frac{1}{2}\right)^8 + {}^{10}C_{10} \left(\frac{1}{2}\right)^{10} = \frac{1}{2}$$

3. 7 balls are tossed independently. What is the probability that a red appears an odd number of times?

Sol. Let p be the probability of success i.e. of getting a head.

$$\therefore p = \frac{1}{2}, \quad q = \frac{1}{2} \quad \text{and} \quad q = 1 - p = \frac{1}{2} - \frac{1}{2}$$

Let x be the binomial probability of 'no of success'.

The binomial probability $P(X) = {}^{10}C_x p^x q^{10-x}$ is

$$\therefore P(X = 0) = {}^{10}C_0 \left(\frac{1}{2}\right)^0 + {}^{10}C_1 \left(\frac{1}{2}\right)^1 + {}^{10}C_2 \left(\frac{1}{2}\right)^2 + \dots + {}^{10}C_{10} \left(\frac{1}{2}\right)^{10}$$

$$\therefore P(X = 0) = {}^{10}C_0 \left(\frac{1}{2}\right)^0 + {}^{10}C_1 \left(\frac{1}{2}\right)^1 + {}^{10}C_2 \left(\frac{1}{2}\right)^2 + \dots + {}^{10}C_{10} \left(\frac{1}{2}\right)^{10}$$

Required Probability = $P(X = \text{head appearing an odd number of times})$

$$= P(X = 1) + P(X = 3) + P(X = 5) + P(X = 7) + P(X = 9)$$

$$= {}^{10}C_1 \left(\frac{1}{2}\right)^1 + {}^{10}C_3 \left(\frac{1}{2}\right)^3 + {}^{10}C_5 \left(\frac{1}{2}\right)^5 + {}^{10}C_7 \left(\frac{1}{2}\right)^7 + {}^{10}C_9 \left(\frac{1}{2}\right)^9 = \frac{1}{2}$$

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