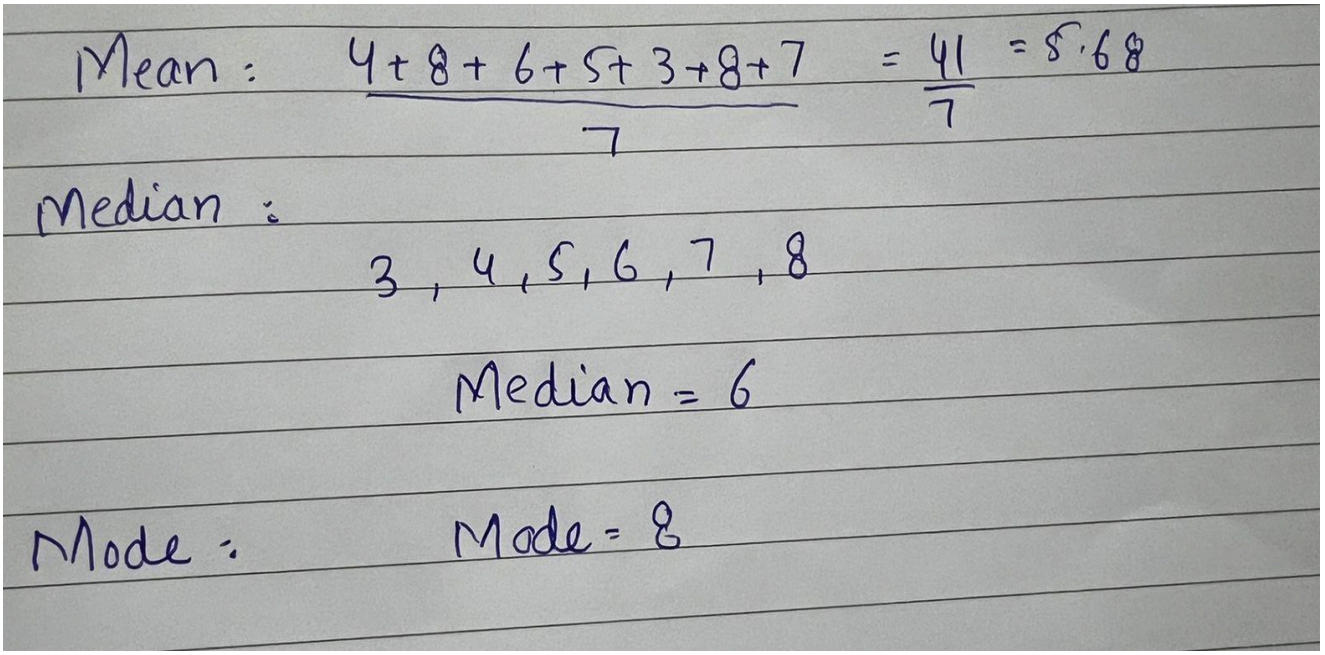
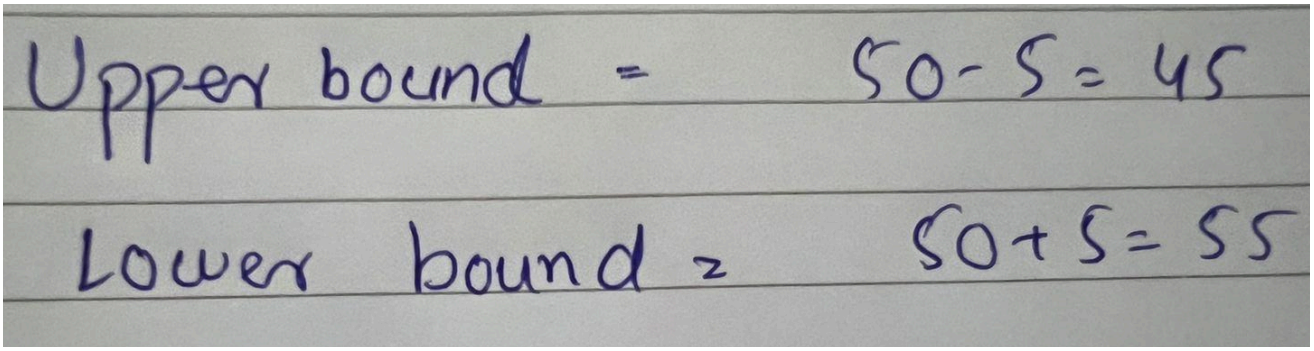
Mean, Median, and Mode

Q1: Calculate the mean, median, and mode for the following data set: 4, 8, 6, 5, 3, 8, 7.



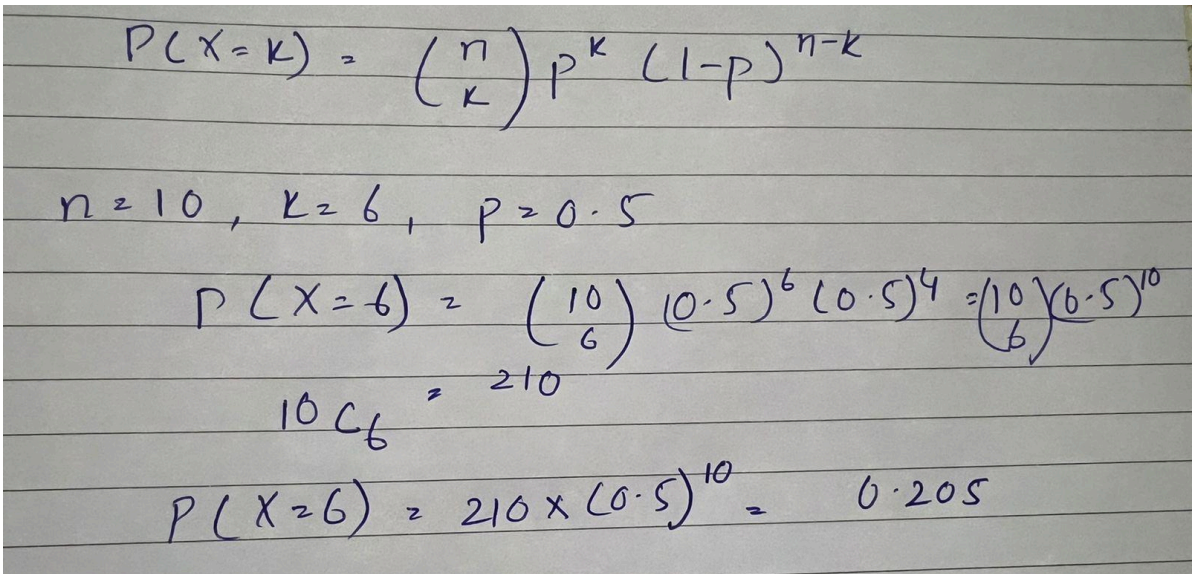
Normal Distribution

Q2: In a normal distribution, 68% of the data falls within one standard deviation of the mean. If a dataset has a mean of 50 and a standard deviation of 5, between what two values does 68% of the data lie?



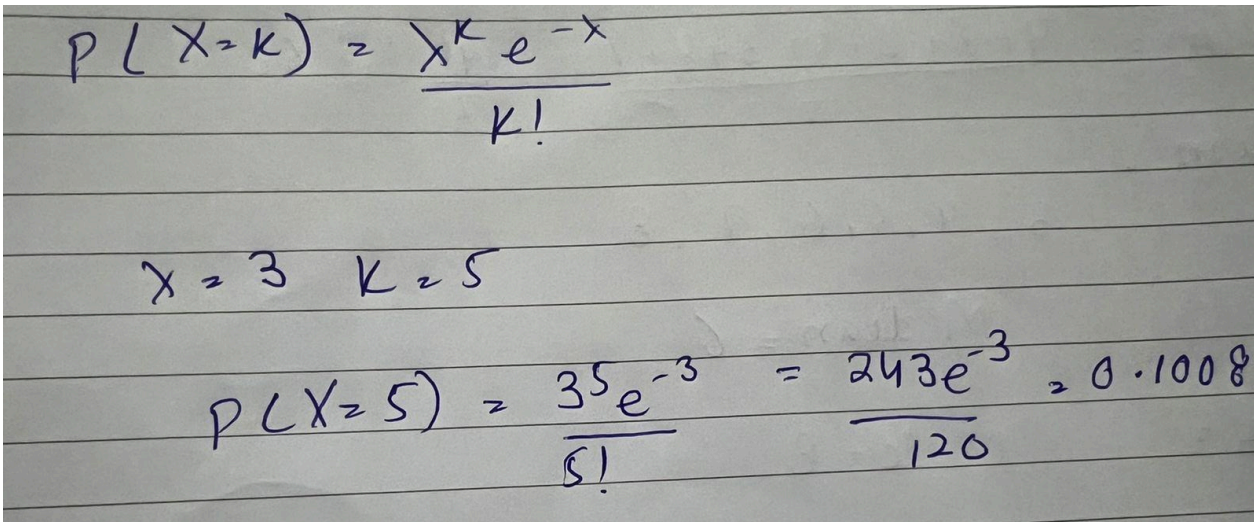
Binomial Distribution

Q3: A fair coin is flipped 10 times. What is the probability of getting exactly 6 heads?



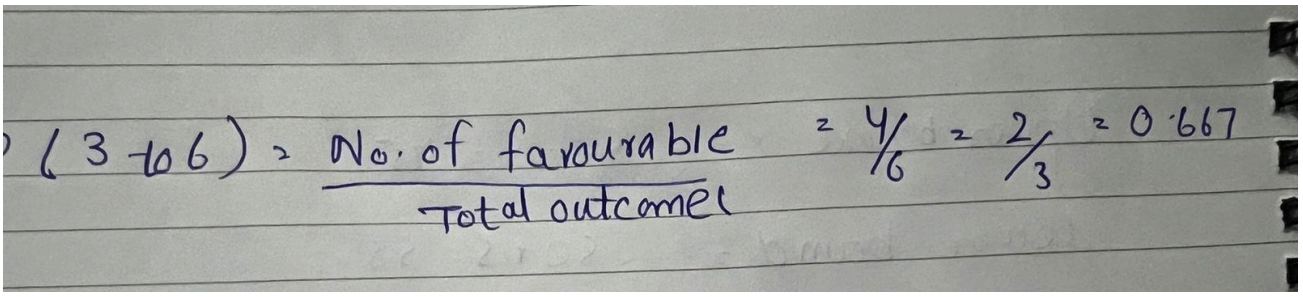
Poisson Distribution

Q4: If the average number of emails received per hour is 3, what is the probability of receiving exactly 5 emails in an hour?



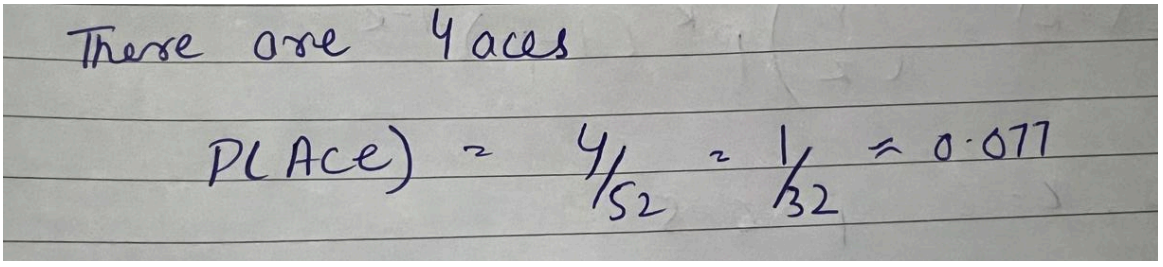
Uniform Distribution

Q5: What is the probability of rolling a number between 3 and 6 (inclusive) on a fair 6-sided die?



Concepts of Probability

Q6: What is the probability of drawing an ace from a standard deck of 52 cards?



Q7: If two dice are rolled, what is the probability of getting a sum of 7?