1. What are the total number of ways to arrange the letters of the word “ELECTRICALLY”?
2. What are the total number of different ways 13 people can be seated at a circular table with 13 chairs?
3. The probability someone is carrying money is 3/20, the probability someone is carrying a credit card is 7/10, and the probability someone is carrying money or a credit card is 29/40. What is the probability that a randomly selected person is carrying:

a) a credit card if they are carrying money?

b) money if they are carrying a credit card?

1. A die is loaded so that an even number is 4 times more likely to appear than an odd number. The die is tossed three times. Let X be the discrete random variable corresponding to the number of times divisor of 10 appears What is the:
2. Prob. Dist., f(x) for X?
3. Cumulative Dist., F(x) for X?
4. Regarding question 4: suppose for each time a divisor of 10 appears, you lose $8 however, you receive 15 if the face is not a divisor of 10. What amount of money can you expect to win? Is the game fair?
5. Given the price amounts and their corresponding probabilities, what is a fair price to pay for this game?
6. If sigma^2 is the variance of a probability distribution with mean mew, and sigma
7. Given the following: