# COB 191 HW4

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P(x = 0) = 0.5^5 = 1/32 = 3.125%

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The probability she gets bumped is 1.40/1000 or 0.14%

For independent travelers, the chances of being bumped 1 – (1 - 0.14) ^10 or 0.0139, which is about 1.39%

49.1/24 = 1.75/hr

31.9%

51.6%

[ANSWER]

The probability that she gets bumped is 1.40/1000, which equals 0.14%. This means that for every 1000 opportunities, there is a 1.4 chance of her getting bumped. For example, if she were to enter a crowd of 1000 people, she would statistically expect to get bumped about 1.4 times.

49.1/24 = 1.75/hr

Answer: For independent travelers, the probability of being bumped from a flight is calculated as 1 - (1 - 0.14)^10. This results in approximately 0.0139, or about 1.39%. This means that if a traveler books 10 flights, there is a 1.39% chance of being bumped from at least one of those flights.

31.9%

Answer: [CONTENT]

51.6%

Answer: [CONTENT]