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MATH 080

Mid-Term

Unit 0

1.
   - Sample Size is 10 college students
   - 72.2 beats per minute is the mean heart rate
   - 6.67 is the standard deviation of the heart rates
   - The fact that its taken during finals it can effect the randomness because some students may be more nervous than others during finals, therefore the beats per minute are not accurate then if they were calm.
2.
   - 426 students is the mean number of newley enrolled freshman 2006-2019
   - The average acceptance rate from 2006-2019 is 68%
   - Standard deviation of acceptance rate is .054. There isnt really an outlier. The data increased steady in time.
3.
   - $160.50 represents the 75th percentile
   - $113 corresponds to the 50th percentile
   - Standard Deviation= 65.32 Mean=153.6
   - Left skewed
4.
   - .000128601
   - .000021433
5.
   - 12%
   - .003%
   - A path that leads back to the starting point is more common

Unit 1

1.
   - If she buys one share her expected value is 0.44$
   - If she buys 1000 shares her expected value would be $440
2.
   - They are not random or they would be evenly distributed throughout the whole chart, they they are more centered towards the middle
   - The p value that satisfies u=Np is .58