## Quiz

 Suppose the time to answer calls by a customer service center are normally distributed with a mean of 2 minutes and a standard deviation of 0.5 minutes. Estimate the percentage of calls that will take longer than 3.5 minutes to answer.
 0.14%

 Suppose the time to answer calls by a customer service center are normally distributed with a mean of 2 minutes and a standard deviation of 0.5 minutes. Estimate the percentage of calls that will take between 2.5 and 3.0 minutes to answer.
 13.5%

Which of the following is NOT a requirement to model with the binomial distribution?
 Less than 25 trials

A constant probability of success between A discrete random variable Exactly two possible states for the random variable

## Quiz

• Suppose that a sample of size 10 is randomly chosen from a batch of size 100 that is known to be 8% defective. What is the probability that there is exactly two defective items in your sample?

.148

- Which of the following COULD be modeled using the binomial distribution?
  The number of each type of value meal at McDonalds ordered from the first 100 cars
  this does not have two states.
- Which of the following is true about variation:
  Control charts are used to recognize special cause variation when it occurs so that appropriate action is taken.
- The impact of a defective batch of raw material on the variability in a process would be characterized as what type of variation?

Special cause