Math 221: Basic Statistics Homework Week #8A

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.62 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8B

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

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Past data indicates that the likelihood is 0.64 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8C

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.66 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8D

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.68 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8E

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.70 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8F

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.72 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8G

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.74 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8H

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.76 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8I

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.78 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?

Math 221: Basic Statistics Homework Week #8J

Title: Computing Binomial Probabilities Using Excel

Objectives:

- To practice using Excel to compute binomial (BINOMDIST)
- To understand when each type of distribution is appropriate.

Directions

- Use the information in section 4.2 to help you complete this assignment. In addition, instructions for using Excel to compute binomial probabilities can be found in chapter 7 of Middleton.
- Supply all of your answers to this assignment on an Excel spreadsheet that includes your name, course number and section, and data set letter.

A customer service department of a phone company wishes to analyze its performance. It measures its success in a number of ways. An important part of its responsibilities relates to the speed with which troubles in residential service can be repaired. In addition, it wishes to ensure that a sufficient number of phone operators are available to handle incoming phone requests.

Past data indicates that the likelihood is 0.80 that any reported problem with residential service can be repaired on the same day.

(1) For a specific 16 problems reported on a given day, construct a table indicating the probability that a certain number of problems will be repaired on the same day. In other words, find the probability that none are repaired, one is repaired, two are repaired, etc.

(2) Using any method, compute the probability that
   (a) at least 8 problems will be repaired on the same day.
   (b) fewer than 12 problems will be repaired on the same day.
   (c) more than 6 but fewer than 14 problems will be repaired on the same day?