

# Math 2311

## Homework 11 (Sections 8.1 - 8.2)

Name: \_\_\_\_\_

PeopleSoft ID: \_\_\_\_\_

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- 1. Homework will NOT be accepted through mail or in person. Homework must be submitted through Canvas/PeopleSoft by the deadline.
  - 2. Print out this file using software and complete the problems.
  - 3. Write solutions below each problem or type your solutions into separate pages titled "Firstname Lastname HW# for this week".
  - 4. Submit this assignment at <https://www.cengage.com> under "assignments" and leave for 48.
  - 5. Total possible points: 26.
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1. Section 8.1
- a. Problem 1
  - b. Problem 2
  - c. Problem 3
  - d. Problem 7

- a. True
- b. False
- c. True
- d. False

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2. Section 8.1, Problem 1

$\mu = 1.20$   
 $\sigma = 1.05$  or  $\sigma^2$   
gap mean =  $\mu = 1.20$   
gap sd = 1.2  
 $n = 40$   
sample mean = 1.223  
 $1.223 - 1.20 > 1.2 / \sqrt{40} (95\%)$   
 $\mu = 1.20$

There is not sufficient evidence to reject the company claim.