

Mastery Exercises Module 5

Score: **13.14/15** Points **87.60** %

< Question 1 (of 15) ▾ >

1. Award: 1 out of 1.00 point

Show correct answer

The average rent in a city is \$1,590 per month with a standard deviation of \$260. Assume rent follows the normal distribution. Use the empirical rule for normal distributions to answer the following questions.

- a. What percentage of rents are between \$1,070 and \$2,110? (Round your answer to the nearest whole percent.)

Mastery Exercises Module 6

Score: **9.75/10** Points **97.50** %

< Question 1 (of 10) ▾ >

1. Award: 0.75 out of 1.00 point

Show correct answer

Given the recent economic downturn, only 65% in a graduating class of 271 will find employment in the first round of a job search. You have 21 friends who have recently graduated. Assume that your friends represent a random sample. Use [Table 1](#).

- a-1. Interpret the sampling distribution of the sample proportion of your friends who will find employment in the first round of a job search.

The sampling distribution is not approximately normal and we need to apply the finite population correction. ❌

Mastery Exercises Module 7

Score: **13.15/15** Points **87.67** %

Question 1 (of 15)

1. Award: 1 out of 1.00 point

Show correct answer

A local bottler in Hawaii wishes to ensure that an average of 14 ounces of passion fruit juice is used to fill each bottle. In order to analyze the accuracy of the bottling process, he takes a random sample of 38 bottles. The mean weight of the passion fruit juice in the sample is 13.78 ounces. Assume that the population standard deviation is 0.59 ounce. Use [Table 1](#).

Use the critical value approach to test the bottler's concern at $\alpha = 0.10$.

a. Select the null and the alternative hypotheses for the test.

$H_0: \mu = 14; H_A: \mu \neq 14$ ✓