

Due 4-12-15 week 6

Student: Leilani Crespi

Date: 3/29/15

Time: 8:16 PM

Instructor: Richard Torsiello

Course: Statistics for Decision-Making
(100)

Book: Larson: Elementary Statistics:
Picturing the World, 5e

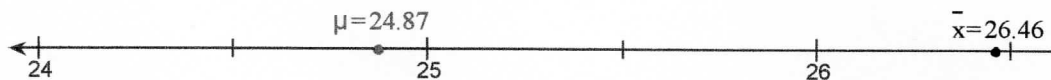
Assignment: Week 6 Homework 40 pts

1. Given the same sample statistics, which level of confidence would produce the widest confidence interval?

Choose the correct answer below.

- ☐ A. 98%
☐ B. 95%
☐ C. 90%
☐ D. 99%

2. Use the values on the number line to find the sampling error.



The sampling error is .

3. Find the margin of error for the given values of c , s , and n .

$$c = 0.95, s = 3.9, n = 49$$

$$E = \text{$$

(Round to three decimal places as needed.)

4. Construct the confidence interval for the population mean μ .

$$c = 0.90, \bar{x} = 8.3, s = 0.2, \text{ and } n = 40$$

A 90% confidence interval for μ is (,). (Round to two decimal places as needed.)

5. Construct the confidence interval for the population mean μ .

$$c = 0.90, \bar{x} = 16.2, s = 10.0, \text{ and } n = 70$$

A 90% confidence interval for μ is (,). (Round to one decimal place as needed.)