

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) The scores of the top ten finishers in a men's golf tournament are listed below. 1) _____

65 66 67 66 67 70 67 70 71 68

Find the mean.

- A) 71.1 B) 70.0 C) 67.7 D) 65.5

- 2) The scores of the top ten finishers in a men's golf tournament are listed below. 2) _____

65 66 67 66 67 70 67 70 71 68

Find the median score.

- A) 66 B) 70 C) 67 D) 68

- 3) The scores of the top ten finishers in a men's golf tournament are listed below. 3) _____

65 66 67 66 67 70 67 70 71 68

Find the mode score.

- A) 68 B) 67 C) 65 D) 66

- 4) Many firms use on-the-job training to teach their employees computer programming. Suppose you work in the personnel department of a firm that just finished training a group of its employees to program, and you have been requested to review the performance of one of the trainees on the final test that was given to all trainees. The mean and standard deviation of the test scores are 74 and 2, respectively, and the distribution of scores is mound-shaped and symmetric. Suppose the trainee in question received a score of 69. Compute the trainee's z-score. 4) _____

- A) $z = -0.91$ B) $z = -2.50$ C) $z = 0.91$ D) $z = 2.5$

- 5) A random sample of 56 fluorescent light bulbs has a mean life of 645 hours with a population standard deviation of 31 hours. Construct a 95% confidence interval for the population mean. 5) _____

- A) (112.0, 118.9) B) (539.6, 551.2)
 C) (636.9, 653.1) D) (712.0, 768.0)

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

6.) The times (in minutes) to assemble a computer component for 3 different machines are listed below. Workers are randomly selected. Test the claim that there is no difference in the mean time for each machine. Use $\alpha = 0.01$.

Machine 1	Machine 2	Machine 3
32	40	28
32	29	31
31	38	29
30	33	25
33	35	
31	32	
	36	

- 1) C
- 2) C
- 3) B
- 4) B
- 5) C
- 6) Critical Value 6.51, Test Statistic 7.103, Reject the null hypothesis, There is enough evidence that the sample means are different.