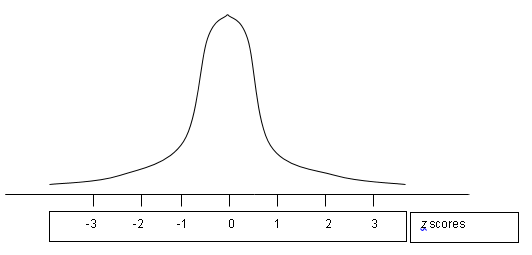
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Activity 6-1**

1. \_\_\_\_\_Independence

\_\_\_\_\_Appropriate measurement   
\_\_\_\_\_Normality  
\_\_\_\_\_Homogeneity of variance

1. H0: \_\_\_\_\_\_, H1: \_\_\_\_\_\_
2. H0: \_\_\_\_\_\_, H1: \_\_\_\_\_\_
3. \_\_\_\_\_\_\_
4. Complete the figure below.



4. \_\_\_\_\_
5. \_\_\_\_\_

8. The results suggest that the tutoring program improved science test scores. The sample that received the tutoring program had a significantly higher mean test score (*M* = \_\_\_\_\_\_, *SD* = \_\_\_\_\_) than in the

untutored population’s test score (µ = \_\_\_\_\_, σ = \_\_\_\_\_\_), *z* (*N* = \_\_\_\_\_) = \_\_\_\_\_, *p* = \_\_\_\_\_, *d* = \_\_\_\_\_.

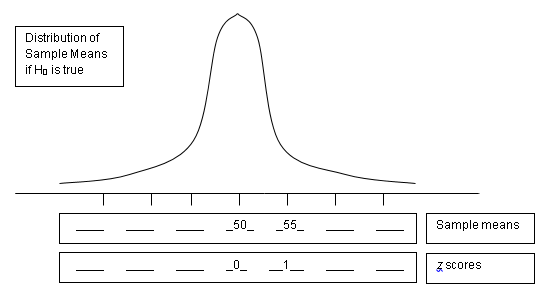
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

6. \_\_\_\_\_
7. Shape = \_\_\_\_\_\_\_\_\_\_

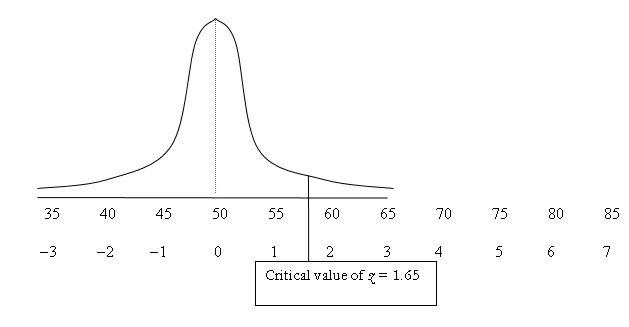
Mean = \_\_\_\_\_\_\_\_\_\_

Standard error of the Mean = \_\_\_\_\_\_\_\_\_\_

1. and 23. Completed figure below.



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. & 38. Draw the completed figure below.



1. Type I error Area \_\_\_\_\_

Type II error Area \_\_\_\_\_

Statistical Power Area \_\_\_\_\_

Failing to reject a true null Area \_\_\_\_\_

3. The mean test score for the tutoring group was \_\_\_\_\_ standard deviations above the mean for the population that did not receive tutoring.
4. \_\_\_\_\_

*I have neither given or received nor have I tolerated others’ use of unauthorized aid*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*