

Materials Needed:

None.

Instructions:

Is there a difference between the self-esteem of men and women? Do NOT put your name on the quiz sheet, this should remain anonymous. The self-esteem quiz is a shortened version of one available online at http://www.circle-of-grace.com/self_esteem_quiz.htm.

1. Take the self-esteem quiz at the end of this sheet, score it, and give it to the instructor who will read the results back to the class.
2. Record the self-esteem scores for each gender in the tables below.

Males

Females

Test the claim that there is no difference in the self-esteems of men and women.

3. The male and female results are (independent / dependent).
4. Write the original claim symbolically.
5. The original claim is the (null / alternative) hypothesis.

6. Write the null and alternative hypotheses:

H_0 :

H_1 :

7. This is a (left tail / right tail / two tail) test.

8. The level of significance is $\alpha =$ _____.

9. The degrees of freedom is _____.

10. The critical value(s) is/are _____.

11. Summarize the data

	Sample Size	Mean	St. Dev
Males			
Females			
Difference			

12. The test statistic is _____.

13. The probability value is _____.

14. The 95% confidence interval is _____ $< \mu_m - \mu_f <$ _____.

15. The test statistic (does / does not) lie in the critical region.

16. The p-value is (less / greater) than the significance level.

17. The confidence interval (does / does not) contained the claimed difference of 0.

18. The decision is to (reject / retain) the null hypothesis.

19. There (is / is not) enough evidence to (reject / support) the claim that there is a difference in the self-esteems of men and women.

Do NOT put your name on this sheet.
Circle your gender in the box to the right.

Gender: Male Female

Answer the questions on this sheet honestly
by checking one box for each question.

Self-Esteem Score: _____

	Always	Often	Occasionally	Never
When I look in the mirror, I like what I see				
I find it easy to interact socially at parties				
I am able to stand up for myself				
I am able to say no to people asking favors				
I take time for myself				
I can forgive myself for making mistakes				
My personal relationships are fulfilling				
I am able to handle crises in my life				
I like my job				
When someone criticizes me, I can examine it logically, and not take every word to heart if it is not true				

When you are done answering the questions, give yourself 3 points for each “always”, 2 points for each “often”, 1 point for each “occasionally”, and 0 points for each “never”. Total the points and write the score in the box at top of the page.