Deliverable 04 Worksheet

1. Describe the 8 steps in the process for hypothesis testing. Explain the decision criteria for rejecting the null hypothesis for both the p-value method and the critical value method.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

The remaining problems refer to the following scenario:

A claim is made that the average salary for all jobs in Minnesota is less than $75,000. You are going to test the claim using $α=0.05$ and assume that your data is normally distributed and the population standard deviation $\left(σ\right)$ is not known.

1. Write the null and alternative hypotheses symbolically and identify which hypothesis is the claim. Then identify if the test is left-tailed, right-tailed, or two-tailed and explain why.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. Identify and explain which test statistic you will use for your hypothesis test: z or t? Find the value of the test statistic.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. What is the critical value? Describe the rejection region.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. Using the critical value approach, should you reject the null hypothesis or not reject the null hypothesis? Explain. After making your decision, restate it in non-technical terms and make a conclusion about the original claim.

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*

1. Calculate the p-value for this hypothesis test, and state the hypothesis conclusion based on the p-value. Does this match your results from the critical value method?

**Answer and Explanation:**

*Enter your step-by-step answer and explanations here.*