Z-Test Report

## STEP 1: CREATING THE HYPOTHESIS

Based on the information provided, the null and alternate hypothesis is given by:

vs

## T-Test Results

## Hypothesized Mean: 44

## Alpha value: 0.05

## STEP 2: SELECTION OF THE CRITICAL REGION

Based on the significant level of = , the rejection region is:

## STEP 3: CALCULATION OF THE TEST STATISTICS

The t-statistics is computed as follows :

## Sample Mean: 49.67167

## Sample Size: 12

## Population Mean: 44

## Population Standard Deviation: 7

## Z-Statistic: 2.806747

## Significant level: 0.05

## STEP 5: CONCLUSION BASED ON Z STATISTICS

## Conclusion based on Z-statistic: Fail to reject the null hypothesis.