One Mean Z-test (Population Standard deviation (\(\sigma\) is known))

Gather the following information and fill in the blanks

Population Mean (\(\mu\)) _________  Population Standard deviation (\(\sigma\)) _________
Sample Mean (\(\bar{x}\))_________  Sample Size (n) _________
Level of Significance (\(\alpha\))_______  Sample Standard deviation (s) _________

Determine the Hypotheses for the Problem and fill in the blanks

Null Hypothesis  Ho: \(\mu\)
Alternative Hypothesis  Ha: \(\mu\)

Put the information into the calculator or website and fill in the blanks

The z-test statistic (z) is ________________
The p-value (p) is ________________

Use the p-value and level of significance, make a conclusion:

If the p-value _________ \(\leq\) the level of significance_______; Reject Ho
If the p-value _________ > the level of significance_______; Fail to Reject Ho

Make the proper conclusion using the original claim: Remember to see what your original claim was and if it is true or false.