**Reese thinks Reese’s is lying**



Mr. Wilcox’s daughter Reese had a special Halloween bag of Reese’s pieces. She took a random sample of 50 pieces and found 27 of the pieces were orange. Google says a bag of Reese’s pieces is 40% orange pieces. She thinks that the Halloween bags must have a higher proportion of orange pieces than the regular bag of Reese’s pieces. Does Reese have convincing evidence that the proportion of orange Reese’s pieces in the Halloween bag is greater than the proportion of orange Reese’s pieces in the regular bag?

 **STATE: State the hypotheses you want to test and the significance level, and define any parameters you use.**

Parameter: Statistic:

Hypotheses: Significance level:

 **PLAN: Identify the appropriate inference method and check conditions.**

Name of procedure:

Check conditions:

 **DO: If the conditions are met, perform the calculations.**

Mean: Standard deviation:

General Formula: Picture:

Specific Formula:

Work: Test statistic:

 P-value:

 **CONCLUDE: Make a conclusion about the hypotheses in the context of the problem.**

Conclusion: