Significance Tests Activity

Significance Tests with Proportions

**★I can identify the proportion parameter that I am interested in based on sample data★**

****★I can determine if a test is one sided or two sided★**

**★I can compute the value of the test and the p-value when conditions have been met★**

**★ I can compare the p-value to α to make a decision about the null hypothesis★**

Is Mrs. Lanigan a better free throw shooter than she expected?

Mrs. Lanigan claimed to be an 80% free throw shooter. To prove her merit, she takes her class to the gym and in a sample of 80 free throws, she makes 68 of them. Has she improved?

**P:** Parameter: Statistic: n = α =

**H:** H0:

Ha:

**C:** Check conditions:

If conditions are met, find standard deviation:

Graph and shade:

**T:** z test:

p-value:

**A:** Compare P-value to α: What conclusion do you make?

**C:** State your conclusion in a sentence