

9.2 Significance Tests for Proportions

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Assignment Score: 97%

Resources

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Solution

Next Question

1 Question
1 Attempt
Correct

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Correct

3 Question
1 Attempt
Correct

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1 Attempt
Correct

5 Question
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Correct

6 Question
1 Attempt
Correct

7 Question
1 Attempt
Correct

8 Question
1 Attempt
Correct

Question 1 of 20

Jason reads a report that says 80% of U.S. high school students have a computer at home. He believes the proportion is smaller than 0.80 at his large rural high school. Jason chooses an SRS of 60 students and finds that 41 have a computer at home. He would like to carry out a test at the $\alpha = 0.05$ significance level of
$$H_0: p = 0.80$$
$$H_a: p < 0.80$$
where p = the true proportion of all students at Jason's high school who have a computer at home.

Are the conditions for this significance test met?

☒ Yes, all of the conditions are met.
☐ No, because the 10% condition is not met.
☐ No, because the random condition is not met.
☐ No, because the Large Counts condition is not met.
☐ No, because the 10% condition and the Large Counts conditions are not met.

My Attempt