

Name:
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MATH 1342

Quiz 8.5

The USA Today claims that 44% of adults who access the Internet read the international news on line. You want to check the accuracy of their claim by surveying a random sample of 120 adults who access the Internet and asking them if they read the international news on line. Fifty-two adults responded “yes”.

- (1) Clearly state the null and alternative hypothesis. What is the test statistic,  $\hat{p}$ , for this sample? Draw a standard normal curve and shade in the rejection region.

- (2) At  $\alpha = 0.05$  level, is there sufficient evidence to reject the null hypothesis? Is the newspaper claim reasonable? (Make sure to include the output from an appropriate test in your calculator.)