Assignment 2

Assignment due on 05/05/2012, 11:59 PM

1. A survey was conducted in which a sample of 500 individuals were asked if they support the current government policies. Of those surveyed, 280 individuals support the policies. Is there evidence that the proportion of individuals who support the current government policies is more than 0.50? Use a significance level of 0.05.

2. A manufacturer of computer chips is testing a new production process. In a sample of 500 chips, 45 chips were found to be defective. Is there evidence that the proportion of defective chips is less than 0.10? Use a significance level of 0.01.

3. A pharmaceutical company is testing a new drug. In a sample of 200 patients, 15 patients reported side effects. Is there evidence that the proportion of patients who experience side effects is more than 0.10? Use a significance level of 0.05.

4. A survey of 1000 adults was conducted to determine the proportion of individuals who use social media. Of those surveyed, 600 individuals reported using social media. Is there evidence that the proportion of individuals who use social media is more than 0.60? Use a significance level of 0.05.

5. A study was conducted to determine the proportion of individuals who prefer online shopping over in-store shopping. In a sample of 500 individuals, 300 individuals preferred online shopping. Is there evidence that the proportion of individuals who prefer online shopping is more than 0.60? Use a significance level of 0.05.