

- 10.6** We are interested in testing whether or not a coin is balanced based on the number of heads Y on 36 tosses of the coin. ($H_0 : p = .5$ versus $H_a : p \neq .5$). If we use the rejection region $|y - 18| \geq 4$, what is
- a** the value of α ?
 - b** the value of β if $p = .7$?

- 10.18** The hourly wages in a particular industry are normally distributed with mean \$13.20 and standard deviation \$2.50. A company in this industry employs 40 workers, paying them an average of \$12.20 per hour. Can this company be accused of paying substandard wages? Use an $\alpha = .01$ level test.