Let $p_{<40k}$ be the proportion of people who feel personally affected by US government shutdowns among the people making less than \$40,000 per year, and let $p_{\geq 40k}$ be the proportion of people who feel personally affected by US government shutdowns among the people making at least \$40,000 per year. Based on the results of a poll, a 95% confidence interval for $p_{<40k} - p_{\geq 40k}$ was found to be $(-0.16, 0.02)$.

1. True or False?

A 95% confidence interval for $p_{\geq 40k} - p_{<40k}$ is $(-0.02, 0.16)$.

Let $p_{<40k}$ be the proportion of people who feel personally affected by US government shutdowns among the people making less than \$40,000 per year, and let $p_{\geq 40k}$ be the proportion of people who feel personally affected by US government shutdowns among the people making at least \$40,000 per year. Based on the results of a poll, a 95% confidence interval for $p_{<40k} - p_{\geq 40k}$ was found to be $(-0.16, 0.02)$.

2.   True or False?

At a 5% significance level, this poll provides evidence that there is a difference in the proportion of people who feel personally affected by US government shutdowns between these two two income groups.

Let $p_{<40k}$ be the proportion of people who feel personally affected by US government shutdowns among the people making less than \$40,000 per year, and let $p_{\geq 40k}$ be the proportion of people who feel personally affected by US government shutdowns among the people making at least \$40,000 per year. Based on the results of a poll, a 95% confidence interval for $p_{<40k} - p_{\geq 40k}$ was found to be $(-0.16, 0.02)$.

3.   True or False?

Among poll respondents, more people in the wealthier income group felt personally affected by US government shutdowns.