## Answer on Question #48832 – Math – Statistics and Probability

A poll finds that 57% of the population approves of the job that the President is doing; the poll has a margin of error of 2% (assuming a 95% degree of confidence).

What is the 95% confidence interval for the true population percentage that approves of the President's performance?

## Solution

The 95% confidence interval for the true population percentage that approves of the President's performance is

$$(\bar{p} - ME; \bar{p} + ME),$$

where  $\bar{p} = 57\%$  and ME = 2% . So,

(57% - 2%; 57% + 2%) = (55%; 59%).

Answer: (55%; 59%).