

18. A researcher wishes to estimate, with 90% confidence, the proportion of adults who have high-speed Internet access. Her estimate must be accurate within 5% of the true proportion.
- a) Find the minimum sample size needed, using a prior study that found that 56% of the respondents said they have high-speed Internet access.
- b) No preliminary estimate is available. Find the minimum sample size needed.
- a) What is the minimum sample size needed using a prior study that found that 56% of the respondents said they have high-speed Internet access?

$n = \square$  (Round up to the nearest whole number as needed.)

- b) What is the minimum sample size needed assuming that no preliminary estimate is available?

$n = \square$  (Round up to the nearest whole number as needed.)

19. The table to the right shows the results of a survey in which 2594 adults from Country A, 1104 adults from Country B, and 1053 adults from Country C were asked if human activity contributes to global warming. Complete parts (a), (b), and (c).

Adults who say that human activity contributes to global warming	
Country A	61%
Country B	85%
Country C	93%

- (a) Construct a 90% confidence interval for the proportion of adults from Country A who say human activity contributes to global warming.

$(\square, \square)$  (Round to three decimal places as needed.)

- (b) Construct a 90% confidence interval for the proportion of adults from Country B who say human activity contributes to global warming.

$(\square, \square)$  (Round to three decimal places as needed.)

- (c) Construct a 90% confidence interval for the proportion of adults from Country C who say human activity contributes to global warming.

$(\square, \square)$  (Round to three decimal places as needed.)