

7.1 Sampling Distributions

Michael Brodskiy

Instructor: Mr. Thompson

January 7, 2021

The screenshot shows a web-based statistics assignment interface. At the top, there is a dark navigation bar with a bell icon, a dropdown menu showing '7.1 Sampling c', and a user profile for 'Michael Brodskiy'. Below this is a breadcrumb trail: 'Statistics AP-Thompson-Year-12462 (66479) > Activities and Due Dates > 7.1 Sampling distributions'. The main content area has a header with 'Assignment Score: 97.4%' and buttons for 'Resources', 'Give Up?', 'Solution', and 'Next Question'. Below the header, it says 'Question 1 of 19'. The question text is: 'From a large group of people who signed a card saying they intended to quit smoking, 1000 people were selected at random. It turned out that 210 (21%) of these individuals had not smoked over the past 6 months.' The question asks: 'What is the parameter of interest?'. There are five radio button options: 1. 'The parameter μ = the mean of the number in the population who had not smoked over the past 6 months.' 2. 'The parameter \bar{x} = the mean of the number in the sample who had not smoked over the past 6 months.' 3. 'The parameter p = the proportion of the sample who had not smoked over the past 6 months.' 4. 'The parameter p = the proportion of the population who had been selected at random.' 5. 'The parameter p = the proportion of the population who had not smoked over the past 6 months.' The fifth option is selected.

Assignment Score: 97.4%

Resources Give Up? Solution Next Question

Question 1 of 19

My Attempt

From a large group of people who signed a card saying they intended to quit smoking, 1000 people were selected at random. It turned out that 210 (21%) of these individuals had not smoked over the past 6 months.

What is the parameter of interest?

- ☐ The parameter μ = the mean of the number in the population who had not smoked over the past 6 months.
- ☐ The parameter \bar{x} = the mean of the number in the sample who had not smoked over the past 6 months.
- ☐ The parameter p = the proportion of the sample who had not smoked over the past 6 months.
- ☐ The parameter p = the proportion of the population who had been selected at random.
- ☒ The parameter p = the proportion of the population who had not smoked over the past 6 months.