

7.1 Sampling Proportions

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The screenshot shows a Canvas LMS interface. At the top, there's a navigation bar with a bell icon, a dropdown menu for "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%", "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.