

4.1 Samples

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The screenshot shows a statistics quiz interface. At the top, there's a navigation bar with a bell icon, a dropdown menu for "Statistics 4.1 Sampling", and a user profile icon for "Michael Brodskiy". Below this is a breadcrumb trail: "Statistics AP-Thompson-Year-12462 (66479) > Activities and Due Dates > Sampling 4.1 Sampling methods".

The main interface is divided into three sections. On the left, a sidebar titled "20 of 20 Questions" lists questions 11 through 20. Each question has a progress bar and a "Correct" status. Question 20 is highlighted in blue. In the center, a header bar shows "Assignment Score: 97.7%" and buttons for "Resources", "Give Up", "Solution", and "Next Question". Below this, a "Question 20 of 20" header is followed by a "My Attempt" button.

The main content area displays the text of Question 20:

Suppose that 35% of the voters in a state are registered as Republicans, 40% as Democrats, and 25% as Independents. A newspaper wants to select a sample of 1000 registered voters to predict the outcome of the next election.

If it randomly selects 350 Republicans, randomly selects 400 Democrats, and randomly selects 250 Independents, did this sampling procedure result in a simple random sample of registered voters from this state?

The question has five radio button options:

- ☐ Yes, because each registered voter had the same chance of being chosen.
- ☒ No, because not all possible groups of 1000 registered voters had the same chance of being chosen.
- ☐ No, because a different number of registered voters was selected from each party.
- ☐ No, because not all registered voters had the same chance of being chosen.
- ☐ Yes, because random chance was involved.

At the bottom of the question area, a green bar indicates the question is "Solved".