

5.1 Probability & Simulation

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The screenshot shows a web-based statistics assignment interface. At the top, a navigation bar includes a bell icon, a dropdown menu for "5.1 Probability", a help icon, and the user's name "Michael Brodskiy". Below this, a breadcrumb trail reads: "Statistics AP-Thompson-Year:12462 (66479) > Activities and Due Dates > 5.1 Probability and simulation".

The main content area is divided into two sections. On the left, a sidebar titled "1 of 15 Questions" lists 10 questions with their respective scores and statuses:

- Q1 Question of 1 Attempts: 100% Correct
- Q2 Question of 1 Attempts: 100% Correct
- Q3 Question of 1 Attempts: 90% Correct
- Q4 Question of 1 Attempts: 100% Correct
- Q5 Question of 1 Attempts: 100% Correct
- Q6 Question of 1 Attempts: 100% Correct
- Q7 Question of 1 Attempts: 100% Correct
- Q8 Question of 1 Attempts: 100% Correct
- Q9 Question of 1 Attempts: 100% Correct
- Q10 Question of 1 Attempts: 95% Correct

On the right, the details for "Question 1 of 15" are displayed. The question text is: "If Aaron tunes into his favorite radio station at a randomly selected time, there is a 0.20 probability that a commercial will be playing. Interpret this probability as a long-run relative frequency." Below the text are five multiple-choice options:

- ☐ Aaron's favorite radio station plays commercials 20% of the time.
- ☒ If you take a very large random sample of times that Aaron tunes into his favorite radio station, about 20% of the time a commercial will be playing.
- ☐ Aaron's favorite radio station plays music 80% of the time.
- ☐ If Aaron listens to his favorite radio station for 100 minutes, then 20 of those minutes will be commercials.
- ☐ If Aaron tunes into this station at 5 randomly selected times, there will be exactly one time when a commercial playing.

At the bottom of the question details, a green bar indicates the status "Solved".