

2.2b Normal Distributions

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The screenshot shows a Blackboard quiz interface. At the top, the navigation bar includes a bell icon, a dropdown menu for 'Statistics AP', and the user's name 'Michael Brodskiy'. Below this, the breadcrumb trail reads: 'Statistics AP > Thompson-Year-12462 (66479) > Activities and Due Dates > 2.2b Normal distributions'. The main content area is divided into a left sidebar and a right main panel. The sidebar, titled '9 of 9 Questions', lists six questions, each with a '100%' completion status and a 'Correct' label. The main panel displays 'Question 9 of 9'. The question text is: 'Mrs. Starnes enjoys doing Sudoku puzzles. The time she takes to complete an easy puzzle can be modeled by a Normal distribution with mean 5.3 minutes and standard deviation 0.9 minutes. Find the 20th percentile of Mrs. Starnes's Sudoku times for easy puzzles.' Below the text are five radio button options: 4.78 minutes, 4.01 minutes, 5.48 minutes, 4.54 minutes (which is selected), and 6.06 minutes. At the bottom of the question panel, a green bar with a checkmark and the word 'Solved' indicates the question has been completed.

9 of 9 Questions

Assignment Score: 98.9%

Resources Give Up? Solution Next Question

My Attempt

Question 9 of 9

Mrs. Starnes enjoys doing Sudoku puzzles. The time she takes to complete an easy puzzle can be modeled by a Normal distribution with mean 5.3 minutes and standard deviation 0.9 minutes.

Find the 20th percentile of Mrs. Starnes's Sudoku times for easy puzzles.

☐ 4.78 minutes

☐ 4.01 minutes

☐ 5.48 minutes

☒ 4.54 minutes

☐ 6.06 minutes

Solved