

MATHCOUNTS[®] Problem of the Week Archive

Final Exams – May 23, 2022

Problems

Joseph scored 76, 88, 96 and 98 on his 4 chapter tests this grading period. If the final exam will count twice as much as each of the chapter tests, and the 4 tests and the final exam are the only items contributing to this period's grade, what is the minimum number score that Joseph must earn on the final to have an average of 94? Express your answer as a decimal to the nearest tenth.

The final exam scores earned by the 16 students in Joseph's class are as follows: 80, 79, 96, 93, 94, 92, 88, 87, 90, 81, 83, 82, 89, 99, 91, 73. What is the positive difference between the median of these scores and the average (arithmetic mean) of these scores? Express your answer as a decimal to the nearest hundredth.

In another one of Joseph's classes the 14 8th graders averaged 94 on the final exam, while the 12 7th graders averaged 89 on the final exam. What was the average score for the entire class? Express your answer as a decimal to the nearest hundredth.