

Weekly Problem Competition

Friday, March 14, 2008

Prof. Menger gives a test to his class of n students. He announces that at least one student received a perfect (maximum) score of 100, that the median score for the class is 65, and that the mean absolute deviation from the median score is 5. A clever student in the class who knows the class size, but not the test scores, is able to deduce that no student scored a zero. What can you say about the smallest and largest possible size of Prof. Menger's class?

Remarks:

The next problem will be posted on Friday, March 28, 2008.

The rules of the competition <http://www.math.iit.edu/~weeklyproblem>

You have to submit the solution by email, to weeklyproblem@math.iit.edu

Please feel free to tell to any undergraduate student about the competition.

Good Luck !