MTH/SLS 218–6816 Quiz on Chapter $14\,$

April 13, 2011	Professor Ilya Kofman
NAME:	
Problem 1. The following statistics provide in exam, taken by 10,000 students:	nformation about a national history
Mean 540, Median 475 25th Percentile 260, 75th Percentile	<i>*</i>
(a) 5,000 students scored at or above	
(b) 1,000 students scored at or above	
(c) The most common score was	
(d) The number of students who scored 260 or	better was
(e) The number of students who scored 260–6	93 was
Problem 2. The following is a survey of stude: they check their email daily: 0 1 2 3 4 5	nts who were asked how many times
(a) The median for this survey is	
(b) The mean for this survey is	
(c) Students in the 75th percentile gave what a	
(d) Students who check email once daily are in	•
(e) How many daily email checks would you exp (Use one of your previous answers.)	_

Problem 3. Scores on a recent SAT were roughly normal, with mean 1038 points, and standard deviation 224 points.

- (a) What was the range of the middle 95% of SAT scores?
- (b) How high must a student score to be in the top 16% of SAT scores?
- (c) What percentage of students scored at or above 814?
- (d) Bonus: An older SAT had mean 1062 and standard deviation 216 points. If Jack scored 1170 on the recent SAT, and Jill scored 1180 on the older SAT, who scored better? Show work.