

Name:
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MATH 1342  
Quiz 2.6 (part 2)

A statistics class with a large number of students has scores on exams 1 and 2 with distributions that are symmetric and mound shaped. The mean for exam 1 is 72.4 and the standard deviation is 8.9. On exam 2,  $\bar{x} = 73.1$  and  $s = 7.2$ .

- (1) On exam 1, a student has a score of 81. What is the corresponding  $z$ -score? On exam 2, the same student has a  $z$ -score of -1.125. Find the corresponding score on exam 2 for this student.

- (2) A student from this class is selected at random. What is the approximate probability that this student had a  $z$ -score of no more than -1 on the first exam?

- (3) A student scores a 77 on both exams. On which of the two exams did this student perform better relative to the rest of the students in the class?