

Name:

PIN:

MATH 1342

Quiz 2.5

A class of 50 students has scores on an exam with a Distribution that is symmetric and mound shaped. The mean for this exam is 72 and the standard deviation is 9. Use the Empirical Rule to answer the following questions about scores on this exam. Assume that all scores on the exam were whole numbers.

(1) Approximately what percent of the class scored above 80 on this exam? Approximately how many students scored at least 81 on this exam?

(2) Approximate $P(54 \leq x < 81)$, where x is the score on the exam of a randomly selected student.

(3) Construct an interval, centered on the mean, that contains approximately 68% of the scores earned on this exam.