

Your Name: _____

Math 140: Statistics, March 18, 2008
Quiz 10, Chapter 11, Chapter 16, Section 1

1. In a hypothetical course, the following scores were obtained:

Midterm: Average = 70, SD = 25
Final: Average = 75, SD = 15, $r = 0.6$

- a) (4 pts.) What percentage of the students that scored over 90 on the final?
- b) (6 pts.) What percentage of the students that scored 90 on the midterm scored over 90 on the final? Show and carefully label your work.

2. (6 pts.) A card is drawn repeated from a standard deck with replacement.

- a) You win a dollar if there are more that 30% hearts. Which is better: 10 draws or 100 draws?
- b) You win a dollar if there are exactly 25% hearts. Which is better: 10 draws or 100 draws?
- c) You win a dollar if there are more than 40% red cards. Which is better: 10 draws or 100 draws?

Pledged: _____