

22S:25 HW Supplement #2 – Spring 2012 Name _____ Sec _____

Directions: For full credit, **show all necessary work** in the space provided. Use the NC table provided in class. Express your answers to the nearest tenth.

1. A mathematics achievement exam was given to all ninth graders in a large urban school district. The scores were approximately normally distributed, with mean = 180 and SD = 40.

a) What percentage of the students scored above 200 ?

b) What percentage of the students scored below 150 ?

c) What percentage of the students scored between 220 and 250 ?

d) Abby received a score of 190. What was her percentile ranking?

e) Amy scored at the 95th percentile. What was her score?

f) Students who score among the top 25% will qualify for honors math classes in 10th grade. What is the minimum score required for honors placement?