Probability and Statistics (MATH 1530-017)
Attendance Quiz, April 23, 2009

NAME _____ E-NUMBER _____

Pick the letter of the best answer. The problems are worth 2 points each.

1. We prefer the t procedures to the z procedures for inference about a population mean because

   (a) z can be used only for large samples.

   (b) z requires that you can regard your data as an SRS from the population.

   (c) t requires that you know the population mean.

   (d) z requires that you know the population standard deviation.

2. You are testing $H_0 : \mu = 10$ against $H_a : \mu < 10$ based on an SRS of 20 observations from a normal population. The t statistic if $t = -2.25$. The degrees of freedom for this statistic are:
   (a) 19.   **(b)** 20.   **(c)** 21.   **(d)** 10.