

# Probability and Statistics (MATH 1530-017)

Attendance Quiz, February 10, 2009

NAME \_\_\_\_\_ E-NUMBER \_\_\_\_\_

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

1. Suppose the number of slaps per film of the Three Stooges films has distribution  $N(13.00, 4.50)$ . The Stooges' 24th film, *Goofs and Saddles*, has 8 slaps. (This data is based on numbers presented in *The Three Stooges—An Illustrated History* by Michael Fleming.) The formula for the  $z$ -score is  $z = (x - \mu)/\sigma$ . What is the  $z$ -score of the film *Goofs and Saddles*?
  - (a) 13
  - (b)  $-1.111$
  - (c) 8
  - (d)  $-4.50$
2. If a Stooges film is chosen at random, what is the probability that it has less slaps than *Goofs and Saddles*? Use the Standard Normal Probabilities in the table below.
  - (a) 50%
  - (b) 10
  - (c) 0.4880
  - (d) 13.35%