

Probability and Statistics (MATH 1530-017)

Attendance Quiz, April 28, 2009

NAME _____ E-NUMBER _____

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

1. *Sports Illustrated* asked a random sample of 757 Division I college athletes, “Do you believe performance-enhancing drugs are a problem in college sports?” Suppose that in fact 30% of all Division I athletes think that drugs are a problem. In repeated samples, the sample proportion \hat{p} would follow a normal distribution with mean
(a) 0.30. (b) 0.017. (c) 227. (d) 0.70.
2. The standard deviation of the distribution of \hat{p} in the previous exercise is about
(a) 0.30. (b) 0.017. (c) 227. (d) 0.70.