

Probability and Statistics (MATH 1530-017)

Attendance Quiz, February 17, 2009

NAME _____ E-NUMBER _____

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

1. Data on the IQ test scores and reading test scores for a group of fifth-grade children give the regression line

$$\text{reading score} = -33.4 + (0.882 \times \text{IQ Score}).$$

Find the predicted reading scores for a child with an IQ score of 130.

(a) 81 (b) -22 (c) 96.6 (d) 185

2. The least-squares regression line for the length of a *Three Stooges* short versus the year in which it was made is reported by Minitab as:

$$\text{Length} = 188 - 0.879 \times \text{Year}$$

From this equation, you can see that the correlation between length and year is

(a) greater than zero. (b) less than zero. (c) zero.
(d) can't be determined without knowing the raw data.