

Probability and Statistics (MATH 1530-017)

Attendance Quiz, March 24, 2009

NAME _____ E-NUMBER _____

If we break the 190 Three Stooges films into two categories, one for the director and one the the role of the third stooge, we get the following:

3rd Stooge\Director	Del Lord	Jules White	Ed Bernds	Other	Total
Curly	38	33	5	21	97
Shemp	1	55	20	1	77
Joe	0	16	0	0	16
Total	39	104	25	22	190

Denote events as: C represents the event of Curly as the third Stooge, S represents Shemp as the third stooge, J represents Joe as the third stooge, L represents the event Del Lord is the director, W represents Jules White is the director, B represents Ed Bernds is the director, and O represents a director other than Lord, White, or Bernds. Suppose the experiment of choosing a Three Stooges film at random is performed.

1. What is $P(C \text{ and } B)$?
(a) $25/190$ (b) $5/25$ (c) $97/190$ (d) $5/190$
2. What is $P(C | B)$?
(a) $25/190$ (b) $5/25$ (c) $97/190$ (d) $5/190$