

Probability and Statistics (MATH 1530-017)

Attendance Quiz, February 26, 2009

NAME _____ E-NUMBER _____

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

The National Survey of Adolescent Health interviewed several thousand teens (grades 7 to 12). One question asked was “What do you think are the chances you will be married in the next ten years?” Here is a two-way table of the responses by gender:

	Female	Male
Almost no chance	119	103
Some chance, but probably not	150	171
A 50-50 chance	447	512
A good chance	735	710
Almost certain	1174	756

1. What percent of those who thought they were almost certain to be married were female?
 - (a) about 40%
 - (b) about 45%
 - (c) about 50%
 - (d) about 61%
2. Your percent from the previous exercise is part of
 - (a) the marginal distribution of chance of marriage.
 - (b) the marginal distribution of gender.
 - (c) the conditional distribution of gender given chance of marriage.
 - (d) the conditional distribution of chance of marriage given gender.