Stat 1040

Quiz 11, Fall 2014

Name_____

Recitation Instructor_____

1. Someone claims to be rolling a pair of fair dice. To test his claim, you make him roll the dice 360 times and you count up the number of times each sum appears. The results are given below. The expected frequencies for a pair of fair dice are also shown. Should you gamble with this individual? (5 points)

Sum	Chance	Observed Frequencies	Expected Frequencies
2	1/36	11	10
3	2/36	18	20
4	3/36	33	30
5	4/36	41	40
6	5/36	47	50
7	6/36	61	60
8	5/36/	52	50
9	4/36	43	40
10	3/36	29	30
11	2/36	17	20
12	1/36	8	10

2. Each respondent in the Current Population Survey was classified as employed, unemployed, or outside the labor force. The results for a simple random sample of 981 men, in California (35-44 years old), is given below. Does the data show that marital status is independent of employment status? (5 points)

	Married	Widowed, Divorced, or Separated	Never Married	(Totals)
Employed	638	133	102	873
Unemployed	27	8	6	41
Not in Labor Force	35	12	20	67
(Totals)	700	153	128	981