

Worksheet 3

1. The table below describes the smoking habits of a group of asthma sufferers.

	Nonsmoker	Occasional smoker	Regular Smoker	Heavy Smoker	Total
Men	392	31	85	36	544
Women	394	45	87	49	575
Total	786	76	172	85	1119

a. If one of the 1119 people is randomly selected, find the probability that the person is an occasional smoker or a nonsmoker.

b. If two different people are randomly selected, find the probability that they are both men.

2. Jose can remember only the first 3 digits of his friend's phone number. He also knows that the number has 7 digits and that the last digit is not a 0. If Jose were to dial all of the possible numbers and if it takes him 24 seconds to try each one, how long would it take to try every possibility?

3. A pollster wants to minimize the effect the order of the questions has on a person's response to a survey. How many different surveys are required to cover all possible arrangements if there are 6 questions on the survey?