MAT 114 Name: _____

Practice Quiz – Probability Distributions; Expected Value

1. A business bureau gets complaints as shown. Find the expected number of complaints per day.

Complaints per Day	0	1	2	3	4	5
Probability	0.04	0.11	0.21	0.33	0.19	0.12

2. Find the expected value of the random variable in the experiment. Three cards are drawn from a deck without replacement. The number of aces is counted.

3. Suppose a charitable organization decides to raise money by raffling a trip worth $500. If 3000 tickets are sold at $1.00 each, find the expected payback for a person who buys 1 ticket.