MAT 1053 - MODULE 12.2 PRE-CLASS WORK

myUTSA ID: _____

MODULE 12.2 - EXPECTED VALUE

LEARNING OBJECTIVES

In this section, you will:

- Expected value
- Fair game

EXPECTED VALUE

• State the definition of expected value.

• Explain a fair game.

MODULE 12.2 - CLASS NOTES

Complete the discrete probability table and compute the probabilities.

1.	
x	P(x)
0	
1	0.23
2	0.12
3	0.12
4	0.02
5	0.21
6	0.16

a. P(x = 1)

b. P(x > 4)

c. $P(3 \le x < 6)$

d. $P(2 < x \le 5)$

For the following exercises, complete the table.

2		
4	٠	

x	P(x)	x * P(x)
1		0.12
2	0.24	
3		0.39
4	0.11	
5		

5.			
	x	P(x)	x * P(x)
			0.12
	2	0.25	
		0.11	0.33
	4	0.13	
	5		

4. Javier volunteers in community events each month. He does not do more than five events in a month. He attends exactly 5 events 22% of the time, he attends 4 events 28% of the time, three events 13% of the time, two events 24% of the time, and one 13% of the time. Let X=the number of community events Javier volunteers for each month. Let P(x) = the probability that Javiar attends x events per month. Complete the probability distribution table.

x	P(x)	x * P(x)

On average, how many community events does Javier attend any given month?