## **WORKSHEET 5**

1. Which of the following can be considered a probability distribution?

٨	1
А	1

X	1	3	5	7	9
P(X)	1.25	0.25	0.25	0.25	0.25

B)

X	1	3	5	7	9
P(X)	0.05	0.13	0.45	0.12	0.25

C)

<i>′</i> ,						
	X	1	3	5	7	9
	11	•			,	
	P(X)	0.25	0.25	- 0.75	0.25	0.25
	$\Gamma(\Lambda)$	0.23	0.23	- 0.73	0.23	0.23

D)

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	X	1	3	5	7	9
	P(X)	0.3	0.2	0.1	0	0.3

\*\*The number of calls received per day at a crisis hot line is distributed as follows:

X	2	3	4	5
P(X)	0.4	0.3	0.2	0.1

Use the above table to answer questions (2 and 3).

2. Find the probability that less than 4 calls per day were received.

- A) 0.7
- B) 0.2
- C) 0.9
- D) 0.3

3.	
	Find the mean and variance of the number of calls.
	A) Mean=3, variance =1
	B) Mean=3, variance =1.5
	C) Mean=3.5, variance =1.5
	D) Mean=3.5, variance =1
4.	Which of the following is a binomial experiment?
	A) Asking 300 people what type of sport they play.
	B) Asking 70 people if they exercise.
	C) Asking 100 people about their favorite drink.
	D) Tossing a coin to see how tails appear.
5.	A die is rolled 60 times. Find the variance of the number of 5s that will be rolled.
	A) 10
	B) 2.9
	C) 15
	D) 8.3
	question correct? A) 0.333
	B) 0.395 C) 0.099 D) 0.422
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	B) 0.395 C) 0.099 D) 0.422  In the past year, 80% of businesses have eliminated jobs. If 6 businesses are selected randomly, find the probability that at least 5 have eliminated jobs during the last year. A) 0.393 B) 0.002 C) 0.655 D) 0.345  At a store, 4% of the printers are not wireless. Find the mean of the number of wireless printers in a lot of 200 printers. A) 192 B) 50
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- 9. At a university, 54.3% of incoming first-year students have computers. If 3 students are selected at random, find the probability that at least one has a computer.
  - A) 0.095
  - B) 0.340
  - C) 0.905
  - D) 0.840

## **Answer Key:**

- 1. B
- 2. A
- 3. A
- 4. B
- 5. D
- 6. B
- 7. C
- 8. A
- 9. C