Name			
_	 		

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Provide	an	approi	oriate	response.

1) State whether the variable is discrete or continuous.

1) _____

The height of a player on a basketball team

A) continuous

- B) discrete
- 2) State whether the variable is discrete or continuous.

2) _____

The number of cups of coffee sold in a cafeteria during lunch

A) continuous

B) discrete

3) The random variable x represents the number of cars per household in a town of 1000 households. Find the probability of randomly selecting a household that has between one and three cars, inclusive.

3)

Cars	Households

Caro	110 0001101010
0	125
1	428
2	256
3	108
4	83
A)	0.256

- B) 0.125
- C) 0.792
- D) 0.208

4) Determine the probability distribution's missing value. The probability that a tutor will see 0, 1, 2, 3, or 4 students

4)		

- x
 0
 1
 2
 3
 4

 P(x)
 0.01
 0.04
 0.37
 0.34
 ?
 - -0.29 B) 0.2

- C) 0.95
- D) 0.76

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

5) Determine whether the distribution represents a probability distribution. If not, identify any requirements that are not satisfied.

5)	

- x P(x) 3 -0.3
- 6 0.5
- 9 0.1
- 12 0.3
- 15 0.4

6) Determine whether	the distribution represents a	probability distribution	. If not, identity 6)	
	hat are not satisfied. Also, the	sum of the probabilitie	s does not equal	
one.				
In ()				
$\frac{\mathbf{x} \mathbf{P}(\mathbf{x})}{1 1 2}$				
1 1.2				
2 1.2				
3 1.4				
4 1.1				
5 1.1				
PLE CHOICE. Choos	e the one alternative that be	st completes the statem	ent or answers the question	l.
7) The random variab	le x represents the number of	f credit cards that adults	have along with the	7)
	pabilities. Find the mean and			
$x \mid P(x)$				
0 0.07				
1 0.68				
2 0.21				
3 0.03				
4 0.01				
,				
	andard deviation: 0.44	•	ndard deviation: 0.66	
C) mean: 1.30; st	andard deviation: 0.32	D) mean: 1.30; sta	ndard deviation: 0.44	
	80% of the community favore 5 citizens are chosen, what is B) 12			8)
o) m	(to 1to the 1 to 1 of the ado	1:0015 In a class of 70	students what is the mean	9)
	t an individual is left-handed tion of the number of left-ha		students, what is the mean	<i>/</i>)
			endard deviation: 2.99	
	andard deviation: 3.24	B) mean: 10.5; standard deviation: 2.99		
C) mean: 70; star	ndard deviation: 3.24	D) mean: 70; standard deviation: 2.99		
0) A feet) true or false questions. To p	ace the test a student mu	uct ancwar at least aight	10)
U) A test consists of it	If the student guessions on an	sh quaction what is the	probability that the student	
	. If the student guesses on eac	in question, what is the	probability that the student	
will pass the test?	TD) 0 00	C) 0.20	D) 0.055	
A) 0.8	B) 0.08	C) 0.20	D) 0.055	
1) A test consists of 10) multiple choice questions, e	ach with five possible a	nswers, one of which is	11)
	test a student must get 60%			
	ility that the student will pass			
A) 0.006	B) 0.060	C) 0.205	D) 0.377	
11, 0.000	-,	,	,	
(2) The probability the	t a tennis set will go to a tie-	breaker is 20%. What is	he probability that two of	12)
three sets will go to		2134161 10 20 /0. FFIRE 15	proceeding and the of	- - /
A) 0.2	B) 0.04	C) 0.096	D) 0.384	

Answer Key Testname: WS4

- 1) A
- 2) B 3) C
- 4) B
- 5) Not a probability distribution. A probability value cannot be negative.
- 6) Not a probability distribution. A probability value cannot be greater than one.
- 7) B
- 8) B
- 9) B
- 10) D
- 11) A
- 12) C