Northern Caribbean University

College of Natural and Applied Sciences - Department of Mathematics and Engineering Math 205: Probability & Statistics Self-Paced Review & Diagnostic Test

Select the correct answer

the correct answer					
age of the students in	n a statistics class is 19 ye	ears.	criptive statistics: The average		
A) inferential statistic	S	B) descriptive st	B) descriptive statistics		
2) Determine whether t cup of coffee is 67.3°	_	discrete or continuous	data set: The temperature of a		
A) Discrete		B) Continuous			
3) Determine whether to	he data are qualitative or	r quantitative:the color	s of automobiles on a used car		
A) qualitative		B) quantitative			
4) Determine whether t	the data are qualitative or DM in a given day	r quantitative: the num	ber of complaint letters		
A) qualitative		B) quantitative	B) quantitative		
5) A die is rolled. The s a 7.	et of equally likely outco	mes is {1, 2, 3, 4, 5, 6}.	Find the probability of getting		
A) 7	B) $\frac{7}{6}$	C) 0	D) 1		
6) Find the mean scor					
71 67 67 72 A) 71	76 72 73 68 72 B) 72	72 C) 68	D) 67		
7) Find the median score 67 67 68 71 72					
A) 73	B) 71	C) 67	D) 72		
8) A single six-sided di	ie is rolled. Find the prob	ability of rolling a nun	nber less than 3.		
A) 0.25	B) 0.5	C) 0.1	D) 0.333		
	•		f guessing an incorrect answer		
A) $\frac{1}{5}$	B) $\frac{5}{2}$	C) $\frac{4}{5}$	D) $\frac{3}{5}$		
•	• •	·	other group of 23 patients to		
A) experiment C) observational stud	,	nt's illness. Which met B) simulation D) survev	hod below would you use?		

- 11) Decide which method of data collection you would use to collect data for the study. A study of the salaries of college professors in a particular state
 - A) observational study

B) experiment

C) survey

D) simulation

- 12) Decide which method of data collection you would use to collect data for the study. A study where you would like to determine the chance getting three girls in a family of three children
 - A) experiment

B) simulation

C) observational study

D) survey

- 13) Decide which method of data collection you would use to collect data for the study. A study to evaluate the success of a new experimental procedure performed on 35 patients at one hospital
 - A) experiment

B) observational study

C) simulation

D) census

- 14) Use the given frequency distribution to find the (i) class width.
 - (ii) class midpoints of the first class.
 - (iii) class boundaries of the first class.

Height (in inches)

Class	Frequency, f			
50 - 52	5			
53 - 55	8			
56 - 58	12			
59 - 61	13			
62 - 64	11			
A) (i) 3		B) (i) 2	C) (i) 2	D) (i) 3
(ii)	51	(ii) 51.5	(ii) 51.5	(ii) 51
(iii)	49.5-52.5	(iii) 50-52	(iii) 49.5-52.5	(iii) 50-52

Provide an appropriate response.

15) For the stem-and-leaf plot below, what is the maximum and what is the minimum entry?

Key: 11 | 7 = 11.7

A) max: 17.3; min: 11.7 C) max: 17.3; min: 11.6 B) max: 17.0; min: 11.6 D) max: 173; min: 116

SHORT ANSWER.

16) What is the difference between an observation and an experiement? Conduct a short research on an interesting experiment that occured within the last 10 years and discuss any ehical implications etc.

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