A Name: \_\_\_\_\_

## Bias and Sampling Worksheet

Mul	tiple	Cho	oice

Identify the c	choice that best completes the statement or ar	iswe	rs the question.
1.	A large corporation wants to find out which is would be most likely to obtain a statistically use. Survey a random sample of employees from the invite all employees to indicate their choic. In place suggestion boxes at random location does assemble a group with one member from of these employees.	inbia om a ices ons in	a list of all employees by e-mail n the company's plant and offices
2.	A university polled 500 of its students, rando students enrolled in each degree program. Cla a. simple random b. stratified c. convenience	-	selecting them proportional to the number of the sampling method. systematic voluntary response
3.	To do market research, a telemarketing firm and contacted them. Classify the sampling ma. simple random b. stratified c. convenience	etho	omly selected 1000 names from a store's database d. systematic voluntary response
4.	To get reactions about a particular new car, reanswers to a survey. Classify this sampling ma. simple random b. stratified c. convenience	etho d.	rs of a car magazine were asked to mail in their d. systematic voluntary response
5.	<ul><li>When a random starting point is chosen, follo</li><li>a. simple random sampling</li><li>b. cluster random sampling</li></ul>	c.	by every <i>n</i> th individual, this sampling method is stratified random sampling systematic random sampling
6.	Systematic random sampling is used to interv sampling interval would be a. 4 b. 20	c.	
7.	A simple random sample of 200 people is sell psychology course to take part in a psychologia. 200 b. 1230 c. people taking part in the test d. male students enrolled in a university psychology.	gical	test. The population being considered is

	8.	Which question is unbiased?							
		a. Does the school board have the right to enforce a dress code?							
	b. Do you think the mayor is doing a good job in spite of his questionable character?								
		c. Do you prefer daytime or evening telev	-	•					
		, , ,		wed to cut down trees willy-nilly to build					
		a new highway?		, ,					
	9.	Which question is biased?							
		a. Do you prefer daytime or evening telev	isior	programing?					
		b. Should there be a school dress code?							
		c. Do you prefer news or mindless sitcoms	s?						
		d. Do you think a new highway should be	built?	)					
	10.	When a research company polls residents al	out 1	their voting intentions, new Canadians are					
		under-represented. This is an example of		,					
		a. sampling bias	c.	non-response bias					
		b. response bias	d.	measurement bias					
	11.	A radio station asks its listeners to call in to	ansv	ver a survey question on spending by politicians. This					
		is an example of							
		a. sampling bias	c.	non-response bias					
		b. response bias	d.	measurement bias					
	12.	In an experiment, the heights of participants	s was	measured by two different laboratory assistants. This					
		may lead to							
		a. sampling bias	c.	non-response bias					
		b. response bias	d.	measurement bias					
Matcl	ning								
		Match these terms with the descriptions below							
		a. cluster sample		voluntary-response sample					
		b. multi-stage sample	d.	convenience sample					
	13.	An easily accessible sample is chosen.							
		Two or more levels of random sampling are	used						
		The population is invited to respond.							
		Samples are randomly selected from represe	entati	ve groups.					
	•	. Samples are randomly selected from representative groups.							

## **Bias and Sampling Worksheet Answer Section**

## MULTIPLE CHOICE

1.	ANS:	A	PTS:	1	DIF:	1
	REF:	Knowledge &	Underst	anding	OBJ:	Section 2.3 LOC: C2.1
	TOP:	Organization of	of Data	for Analysis	KEY:	sampling
2.	ANS:	В	PTS:	1	DIF:	1 REF: Application
	OBJ:	Section 2.3	LOC:	C2.2	TOP:	Organization of Data for Analysis
	KEY:	sampling				
3.	ANS:	A	PTS:	1	DIF:	1 REF: Application
	OBJ:	Section 2.3	LOC:	C2.2	TOP:	Organization of Data for Analysis
	KEY:	sampling				
4.	ANS:	Е	PTS:	1	DIF:	1 REF: Application
	OBJ:	Section 2.3	LOC:	C2.2	TOP:	Organization of Data for Analysis
_	KEY:	sampling				
5.	ANS:	D	PTS:	1	DIF:	1
	REF:	Knowledge &		•	OBJ:	Section 2.3 LOC: C2.2
(	TOP:	Organization of		•	KEY:	sampling
0.	ANS:	A	PTS:	1	DIF:	2 REF: Application
	OBJ: KEY:	Section 2.3	LOC:	C2.2	TOP:	Organization of Data for Analysis
7	ANS:	sampling D	PTS:	1	DIF:	1 REF: Application
7.	OBJ:	Section 2.3	LOC:	C2.2	TOP:	1 REF: Application Organization of Data for Analysis
	KEY:	population	LOC.	C2.2	TOF.	Organization of Data for Analysis
8	ANS:	С	PTS:	1	DIF:	1
0.	REF:	Knowledge &			OBJ:	Section 2.4 LOC: C2.3
	TOP:	Organization of		•	KEY:	bias
9.	ANS:	C	PTS:	1	DIF:	1
	REF:	Knowledge &		anding	OBJ:	Section 2.4 LOC: C2.3
	TOP:	_		_		
	101.	Organization (	of Data	for Analysis	KEY:	bias
10.	ANS:	Organization of C	of Data PTS:	for Analysis 1	KEY: DIF:	
10.		•		•		1 REF: Application
10.	ANS:	C	PTS:	1	DIF:	
	ANS: OBJ:	C Section 2.4	PTS:	1	DIF:	1 REF: Application
	ANS: OBJ: KEY:	C Section 2.4 bias	PTS: LOC:	1 C2.3	DIF: TOP:	1 REF: Application Organization of Data for Analysis
	ANS: OBJ: KEY: ANS:	C Section 2.4 bias A	PTS: LOC: PTS:	1 C2.3	DIF: TOP: DIF:	1 REF: Application Organization of Data for Analysis 1 REF: Application
11.	ANS: OBJ: KEY: ANS: OBJ:	C Section 2.4 bias A Section 2.4	PTS: LOC: PTS:	1 C2.3	DIF: TOP: DIF:	1 REF: Application Organization of Data for Analysis 1 REF: Application
11.	ANS: OBJ: KEY: ANS: OBJ: KEY: ANS: OBJ:	C Section 2.4 bias A Section 2.4 bias D Section 2.4	PTS: LOC: PTS: LOC:	1 C2.3 1 C2.3	DIF: TOP: DIF: TOP:	1 REF: Application Organization of Data for Analysis  1 REF: Application Organization of Data for Analysis
11.	ANS: OBJ: KEY: ANS: OBJ: KEY: ANS:	C Section 2.4 bias A Section 2.4 bias D	PTS: LOC: PTS: LOC: PTS:	1 C2.3 1 C2.3	DIF: TOP: DIF: TOP:	1 REF: Application Organization of Data for Analysis  1 REF: Application Organization of Data for Analysis  1 REF: Application

## **MATCHING**

13.	ANS:	D PTS: 1	DIF:	2	
	REF:	Knowledge & Understanding	OBJ:	Section 2.3 LOC:	C2.2
	TOP:	Organization of Data for Analysis	KEY:	sampling	
14.	ANS:	B PTS: 1	DIF:	2	
	REF:	Knowledge & Understanding	OBJ:	Section 2.3 LOC:	C2.2
	TOP:	Organization of Data for Analysis	KEY:	sampling	
15.	ANS:	C PTS: 1	DIF:	2	
	REF:	Knowledge & Understanding	OBJ:	Section 2.3 LOC:	C2.2
	TOP:	Organization of Data for Analysis	KEY:	sampling	
16.	ANS:	A PTS: 1	DIF:	2	
	REF:	Knowledge & Understanding	OBJ:	Section 2.3 LOC:	C2.2
	TOP:	Organization of Data for Analysis	KEY:	sampling	