Name:		Class:	υ	ate:	ID: A
Math 9 U	Init 9 Probability a	and Statistics Prac	etice Test		
Multiple Identify the	Choice choice that best com	upletes the statement	or answers the que	estion.	
1.	Is her decision based a. Theoretical pro	A, it took her over 1.5 d on theoretical probability of theoretical probability	5 h to get through ability, experimenta	ago because each of the check-in and security. al probability, or subject judgment	•
2.	in accidents. Is her decision based a. Subjective judge	d on theoretical proba ment of theoretical and ex robability	ability, experimenta	al probability, or subjec	re very rarely involved etive judgment?
3.	Claudia was having a Was her decision ba a. Experimental p b. Subjective judge c. Theoretical pro	a lucky day, so she bo sed on theoretical pro robability ment	ought a ticket. bbability, experime	ntal probability, or sub	jective judgment?
4.	because she was not Was her decision ba a. Subjective judge b. Experimental p c. Theoretical pro	feeling lucky, and all sed on theoretical pro- ment robability	most every club me obability, experime	wards ceremony. Sasha ember had purchased a ntal probability, or sub- judgment	ticket.
5.		everyone should become of the following might	ome a vegetarian?"	d. iv	

Name:			_			ID: A	
	6.	10 min questionnaire w In this survey, which o i) Privacy ii) Timing iii) Cost iv) Cultural sensitivity	which she gave to her f the following might	t the sports her classma classmates the day befo be a problem with this c. iii	ore th ques		a
	7.	allowance. In this survei) Privacyii) Timingiii) Use of Languageiv) Cost		ted each one how much wing might be a problem c. iii		or she was given each week as a river iv	1
	8.	Which of the following i) Timing ii) Use of Language iii) Cultural sensitivity iv) Cost	might be a problem?			their favourite Christmas carols.	
	9.	Which of the following i) Timing ii) Bias iii) Privacy iv) Cost	ment buildings should	l allow residents to have		iv	
1	0.	the library's Web site. Which of the following i) Timing ii) Bias iii) Ethics iv) Cost				n they downloaded e-books from	n
1	1.	i) Survey a sample ofii) Survey a sample oiii) Survey all grade 12iv) Survey all grade 12	method would provid grade 12 students fro f grade 12 students fro students from the loc	e the most accurate inform one local high school om all the local high schools	orma l nools	ation?	

Name:		ID: A
	12.	A fashion designer offered to teach a class on clothing design for students in grades 11 and 12. Which data collection method would provide the most accurate information about how likely students would be to take the class? i) Survey a sample of grade 11 and 12 students ii) Survey a sample of grade 11 and 12 girls iii) Survey all grade 12 students iv) Survey all grade 11 and 12 girls a. i b. ii c. iii d. iv
	13.	To determine the favourite TV shows of grade 9 students at a school, which of the following data collection methods would provide the most accurate information? i) Survey a sample of students in one grade 9 class ii) Survey all students in one grade 9 class iii) Survey a sample of students from each grade 9 class iv) Survey all students in each grade 9 class a. i b. ii c. iii d. iv
	14.	A town council wants to know the public's opinion about increasing taxes to pay for more housing for the homeless. They hire people to conduct door-to-door interviews in randomly selected areas of town Which sampling method did the town council use? a. Self-selected sampling b. Simple random sampling c. Systematic sampling d. Cluster sampling
	15.	A school's cafeteria manager wants to know whether changing the cafeteria menu will increase its the number of lunch specials it sells. On Wednesday, the manager surveys as many people in the cafeteria as the can to find out. Which sampling method did he use? a. Cluster sampling b. Systematic sampling c. Simple random sampling d. Convenience sampling
	16.	A local political party wants to know what people think about a new by-law banning certain types of dogs. It sends out a newsletter to everyone in the district. The newsletter contains a questionnaire and readers are asked to return their responses by mail or email. Which sampling method was used? a. Systematic Sampling c. Self-selected sampling b. Simple random sampling d. Cluster sampling
	17.	A company hires students to fill boxes with cartons of fruit juice. The quality control manager wants to ensure each box contains the same number of each type of juice. For each student, the manager randomly selects and checks a box that the student filled. a. Cluster sampling c. Convenience sampling

Short Answer

18. The owners of a chain of fast food restaurants want to know if customers are satisfied with the restaurant chain. They set up a Web site where customers can enter a code from their receipt and then rate the restaurant.

d. Systematic sampling

Are the data collected from a sample or a population?

b. Stratified random sampling

Name:				

ID: A

- 19. A company produces boxes of breakfast cereal weighing 400 g. The quality control inspector wants to ensure that each box contains 395 g 405 g of cereal. She selects a random sample of 10 boxes from each production line at noon each day. What is a potential problem with this sampling method?
- 20. A company that produces printer cartridges wants to know what fraction of the cartridges are faulty. The produce about 200 cartridges an hour and tests 1 randomly selected cartridge each hour. Will the selected sample represent the population?

Math 9 Unit 9 Probability and Statistics Practice Test Answer Section

MULTIPLE CHOICE

1.	ANS:	D P	TS:	1	DIF:	Easy	REF:	9.1 Probability in Society
	LOC:	9.SP4 T	OP:	Statistics and	Probab	oility (Chance	and Un	certainty)
	KEY:	Conceptual Und	lerstan	nding				
2.	ANS:	A P	TS:	1	DIF:	Easy	REF:	9.1 Probability in Society
	LOC:	9.SP4 T	OP:	Statistics and	Probab	oility (Chance	and Un	certainty)
		Conceptual Und						
3.	ANS:	B P	TS:	1	DIF:	Easy	REF:	9.1 Probability in Society
	LOC:	9.SP4 Te	OP:	Statistics and	Probab	oility (Chance	and Un	certainty)
		Conceptual Und				• •		
4.	ANS:	D P'	TS:	1	DIF:	Moderate	REF:	9.1 Probability in Society
	LOC:	9.SP4 T	OP:	Statistics and	Probab	oility (Chance	and Un	certainty)
		Conceptual Und				• `		•
5.	ANS:	D P'	TS:	1	DIF:	Easy		
	REF:	9.2 Potential Pro					LOC:	9.SP1
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
6.	ANS:	B P	TS:	1	DIF:	Easy		
		9.2 Potential Pro					LOC:	9.SP1
		Statistics and Pr			_		KEY:	Conceptual Understanding
7.		A P				Easy		
		9.2 Potential Pro				•	LOC:	9.SP1
		Statistics and Pr			_		KEY:	Conceptual Understanding
8.		C P						2
		9.2 Potential Pro				•	LOC:	9.SP1
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
9.	ANS:	B P	TS:	1	DIF:	Easy		2
	REF:	9.2 Potential Pro	oblem	s with Collec	ting Da	ata	LOC:	9.SP1
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
10.	ANS:	D P	TS:	1	DIF:	Easy		
	REF:	9.2 Potential Pro	oblem	s with Collec	ting Da	ata	LOC:	9.SP1
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
11.	ANS:	C P	TS:	1	DIF:	Easy		
	REF:	9.3 Using Samp	les an	d Populations	to Col	llect Data	LOC:	9.SP2
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
12.	ANS:	A P	TS:	1	DIF:	Easy		
	REF:	9.3 Using Samp	les an	d Populations	to Col	llect Data	LOC:	9.SP2
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
13.	ANS:	D P	TS:	1	DIF:	Easy		
	REF:	9.3 Using Samp	les an	d Populations	to Col	llect Data	LOC:	9.SP2
	TOP:	Statistics and Pr	robabi	lity (Data Ana	alysis)		KEY:	Conceptual Understanding
14.	ANS:	D P	TS:	1	DIF:	Easy	REF:	9.4 Selecting a Sample
	LOC:	9.SP2 T	OP:	Statistics and	Probab	ility (Data An	alysis)	
	KEY:	Conceptual Und	lerstan	nding				

15. ANS: D PTS: 1 DIF: Easy REF: 9.4 Selecting a Sample

LOC: 9.SP2 TOP: Statistics and Probability (Data Analysis)

KEY: Conceptual Understanding

16. ANS: C PTS: 1 DIF: Easy REF: 9.4 Selecting a Sample

LOC: 9.SP2 TOP: Statistics and Probability (Data Analysis)

KEY: Conceptual Understanding

17. ANS: B PTS: 1 DIF: Easy REF: 9.4 Selecting a Sample

LOC: 9.SP2 TOP: Statistics and Probability (Data Analysis)

KEY: Conceptual Understanding

SHORT ANSWER

18. ANS:

A sample

PTS: 1 DIF: Easy REF: 9.3 Using Samples and Populations to Collect Data

LOC: 9.SP2 TOP: Statistics and Probability (Data Analysis)

KEY: Conceptual Understanding

19. ANS:

The sample is not representative. Her testing does not ensure quality throughout the day.

PTS: 1 DIF: Easy REF: 9.4 Selecting a Sample

LOC: 9.SP2 TOP: Statistics and Probability (Data Analysis)

KEY: Conceptual Understanding

20. ANS:

Yes

PTS: 1 DIF: Moderate REF: 9.4 Selecting a Sample

LOC: 9.SP2 TOP: Statistics and Probability (Data Analysis)

KEY: Conceptual Understanding