Mat	h 9	Chapter 8	Statistics and Probability Pr	actice Test	Name:	
Core Samj Influ	e Skills #1: S pling method ences: Bias,	ampling Meth convenience, use of languag	nods and their influence. voluntary response, tv/online s e, ethics, cost, time, timing, pri	survey, random vacy, cultural sensitivity		
(M	C – circle th	e right answei	•)			
1.	Which type a. conve	of sampling me	ethod would be limited to indiv b. online questionnaire	viduals present at the loca c. voluntary response	ation of the survey? e d. random	
2.	Which type a. conve	of sampling me	ethod is considered free of bias b. online questionnaire	? c. voluntary response	e d. random	
3.	The school p dance. Whi a. She asks c. She place d. She asks	president was a ch of the follow 30 of her friend s 30 questionn the office for th	sked to conduct a survey of the ving best represents a random ls. b. Sl aires in the cafeteria. he names of 30 students, 6 from	e students to determine if sample? he surveys 30 grade 9 stu n each grade.	the school should have an idents.	other
(Sh 4.	ort answers Name a prob Bridget aske) olem related to ed her classmat	this data collection. es the following question: "Do	you agree we spend too	much time on homework?	"
5.	Name a problem related to this data collection. Brandon wanted to collect information on students' television viewing habits. He decided to mail a questionnaire, along with a self-addressed stamped envelope, to 300 students in his school.					
6.	Anita survey problems wi	yed her classma th cultural sens	ates to see if they were interest sitivity? Explain	ed in a Christmas gift exo	change. How might she ha	ve

Core Skills #2: Measure of Central Tendency in Statistics

core shins "2" hieusure or centrur rendency in suurstee	
7. A list of number is given:	8. Find the mode of the following list
10, 14, 18, 12, 13, 15	
	a) 3, 5, 7, 5, 9, 8, 9, 10, 7, 7, 9
a) Find the mean the list	
	h) 2 3 2 5 5 3
b) Find the median of the list	6, 2, 3, 2, 5, 5, 5
b) I find the includin of the list	

Core 1 Extending	Core 2 Extending
9. Baby Cheung want	10. The mean of 30 numbers is 12. If the mean of the first 20 number is 15, what is the mean of the last 10 number?
Ans)	Ans)

Core skill #3: Probability						
11. State whether the following events are mutually exclusive and explain your reasoning. Drawing a heart or drawing a Jack from a standard deck of 52 playing cards.	12. State whether the following events are Independent and explain your reasoning. Rolling a 5 with one die and landing on a tail after tossing a coin					
13. What is the probability that you will spin a number divisible by 3 on this spinner?	14. A game has three possible outcomes A, B and C. If P(A)=0.6 and P(B)=0.1, what is the probability of event C?					
15. A coin is tossed three times.	16. Two 6-sided dice are roiled. Determine the probability					
a) List the sample space for the three coins tosses.(ie, HHH, HHT)	of the following. a. The sum of the two dice is 5					
b) what is the probability of getting all 3 Heads	b. The sum of the two dice is less than or equal to 6					
c) what is the probability of getting 2 heads and 1 tail?	c. The sum is greater than 8 or a multiple of 5					
 17. A jar contains 3 red, 2 yellow and 4 blue marbles. A marble is chosen at random from the jar. Without replacing it, a second marble is chosen. What is the probability of choosing a yellow and then a blue marble? 						
18. A deck of 52 cards from Ace to King has four suits: Hea are black. Determine the following probability	art and Diamond which are red and Spades and Clubs which					
a) selecting a Red 9 b) drawing	g an even red card					
c) not drawing a heart d) drawing	g a face card or a 9					
e) drawing a Spade or a 7 f) drawing a 3, then drawing another 3 without replacing the first card						
19 90 people in a community participated in a technology	survey. It was found that 70 neonle have a smartphone. 40					
people have a tablet. Fill in the Venn Diagram, then wh	at is the probability that a person selected a random has					
a. A smartphone only b. both a smartphone and a tablet						
c. a smartphone or a tablet	$\langle \rangle \rangle \rangle$					
	a)					
	b)					
	c)					