Elementary Statistics	Name:		
Study Guide 2	Class:		
Due Date:	Score:		
Your solutions must be consist	tent with class notes & resources.		
Be Neat, Organized, a	and No Work $\Leftrightarrow$ No Points		
1. (3 points) Complete the following se	entence: Statistics is the science of		
2. (2 points) What are the two branches	es of statistics?		
	2		
3. (2 points) What are the two different	at data types?		
	3		
4. (3 points) Give two examples of qua	litative data.		
	4		
5. (3 points) Give two examples of qua	ntitative data.		
	5		
6. Determine whether the given value is a statistic or a parameter:			
(a) (1 point) A sample of 80 doctor	s had average salary of \$12,000 per month.		
	(a)		
(b) (1 point) The GPA of all studer	nts at the college is 2.95.		
	(b)		

7.			nich of the four level of measurement <u>nominal, ordinal, interval,</u> appropriate:	or
	(a)	(1 point)	Survey responses of "good, better, best".	
	(b)	(1 point)	(a) The zip code for college mailing address.	
	(c)	(1 point)	The room temperature.	
	(d)	(1 point)	(c) Size of regular T–Shirt.	
			(d)	
8.	Det	ermine wh	ether the given value is from a <u>discrete</u> or <u>continuous</u> data set:	
	(a)	(1 point)	The temperature of a cup of coffee at a local restaurant is 68.7°	
	(b)	(1 point) is 3456.	(a) The number of all students in all mathematics classes at the coll	
	(c)	(1 point)	(b)Amount of rain falls in the recent flood in Oklahoma and Texas	
	(d)	(1 point)	(c) The number of professors at the college.	
	(e)	(1 point)	(d) The number of tails when you toss a fair coin 100 times.	
	(f)	(1 point) signment.	(e) The amount time that a student took to finish the computer	
			(f)	

9. Dete	ermine whether the variable data type below as $\underline{\text{qualitative}}$ or $\underline{\text{quantitative}}$ :
(a)	(1 point) The weight of people at a basketball game.
(b)	(a)(1 point) The color of jersey that basketball players wear when they play.
(c)	(b)(1 point) The type of vehicles that was in the showroom at a car dealership.
(d)	(c)(1 point) Student's grade in Pass/No Pass class.
	(d)
	ermine the type of sampling used: <u>random</u> , <u>stratified</u> , <u>systematic</u> , <u>cluster</u> venience:
(a)	(1 point) $25$ students were selected from each of the Freshmen, Sophomore Junior, and Senior classes with $350,450,520,$ and $125$ students respectively.
(b)	(a)(1 point) To complete an assignment, a statistic students obtain certain data by interviewing his family members.
(c)	(b)(1 point) The supervisor of an assembly line selected every 25th item for quality inspection.
(d)	(c)(1 point) A medical researcher contacted every cancer patient from randomly selected 25 hospitals.
(e)	(d)(1 point) A local newspaper reached out to 1200 voters by phone that were randomly generated by a computer software.
	$(\mathbf{e}) =$

- 11. (2 points) What is an experiment?
- 12. (2 points) What is an observational study?
- 13. (2 points) What is the least reliable method of collecting data?
- 13. \_\_\_\_\_

- 14. Given: Max = 80 and Min = 20,
  - (a) (2 points) Compute Max Min.
  - (b) (2 points) Compute  $\frac{Max Min}{4}$ .

(a) \_\_\_\_\_

(c) (2 points) Compute  $\left(\frac{Max - Min}{4}\right)^2$ .

(b) \_\_\_\_\_

(d) (2 points) Compute  $\frac{(Max - Min)^2}{12}$ .

(c) \_\_\_\_\_

(e) (2 points) Compute  $\frac{Max + Min}{2}$ .

(d) \_\_\_\_\_

(e) \_\_\_\_\_

Students generally do better when they use the tutoring center.