## Math 13 - Homework 1

Name:	Class Number:
1) In a statistical study what is the difference l	between an individual and a variable?:
2) Explain the meaning of:	
<ul><li>a. qualitative variable.</li><li>b. quantitative variable.</li><li>c. discrete, quantitative variable.</li><li>d. continuous, quantitative variable.</li></ul>	
,	for category items describing electronic ways of expressing text message; $4 = \text{Facebook}$ ; $5 = \text{blog}$ . Are these numerical?
	gory items describing usefulness of customer service: $1 = \text{not}$ ; $4 = \text{extremely helpful}$ . Are these numerical assignments at
5) A state survey asked 1500 residents in Califithey ordered.	Cornia which fast-food meal (breakfast, lunch, dinner, snack)
<ul><li>a. Identify the variable.</li><li>b. Is the variable quantitative or qualitative</li></ul>	?
6) Human beings have one of four blood types: are told your blood type?	A, B, AB, or O. What kind of data do you receive when you
7) The U.S. Census Bureau collects data on Population Reports. What kind of data is the	household size and publishes the information in Current number of people in your household?
8) Say whether the property is quantitative or	qualitative.
<ul><li>a. A person's height.</li><li>b. A person's sex.</li></ul>	

f. A person's level of education. g. A person's years of education.

c. A person's weight.d. A person's eye color.e. A person's marital status.

9) Identify the measurement level of the following variables

- a. Length of time to complete an exam.
- b. Time of first class.
- c. Major field of study.
- d. Course evaluation: poor, acceptable, good.
- e. Score on last exam (based on 100 possible points).
- f. Overall grade (letters: A, B, C, D, F).
- g. Age.
- h. Name of student.
- i. College year-grade: freshman, sophomore, junior, senior.
- j. Weight (in ounces).
- k. Height (in inches).
- l. Sex.
- m. Home Address.
- n. Telephone number.
- o. Birth date: (e.g. 10/21/1995)
- p. Number of siblings.
- 10) Classify the measurements associated with fishing according to level: nominal, ordinal, interval, or ratio.
  - a. Species of fish caught: perch, nass, pike, trout.
  - b. Cost of rod and reel.
  - c. Guidebook rating of fishing area: poor, fair, good.
  - d. Number of fish caught.
  - e. Temperature of water.
- 11) Classify the measurements associated with a robotics company according to level: nominal, ordinal, interval, or ratio.
  - a. Salesperson's performance: below average, average, above average.
  - b. Price of company's stock.
  - c. Names of new products.
  - d. Temperature (in Fahrenheit degrees) in conference room.
  - e. Gross income for each of the past 5 years.
  - f. Color of product packaging.