

Practice Problems Section 1A (updated version)

1. The following columns of data were taken from a random sample of bears. Use the bear data to classify each column of data as either categorical or quantitative. If the column of data is quantitative, what are the units?

- Bear Age
- Month the bear was measured.
- Bear Sex
- Bear Length
- Bear Weight

AGE (months)	Month Data Taken	Sex of Bear	Length (inches)	Weight (pounds)
19	July	male	53	80
55	July	male	67.5	344
81	September	male	72	416
115	July	male	72	348
104	August	female	62	166
100	April	female	70	220
56	July	male	73.5	262
51	April	male	68.5	360
57	September	female	64	204
53	May	female	58	144
68	August	male	73	332

2. The following columns of data were taken from a random sample of cereals. Classify each column of data as either categorical or quantitative. If the column of data is quantitative, what are the units?

- Cereal Name
- Cereal Manufacturer
- Cereal Target Customer
- Recommended Shelf Cereal should be displayed at the store.
- Amount of Carbs in Cereal
- Amount of Sodium in Cereal
- Amount of Sugar in Cereal
- Recommended Serving Size

Cereal Name	Cereal Manufacturer	Target (Adult or Child)	Shelf displayed at store	Carbs (grams per serving)	Sodium (milligrams per serving)	Sugar (grams per serving)	Serving Size (Cups per serving)
Captain Crunch	Quaker	Child	Middle	12	220	12	0.75
Cocoa Puffs	General	Child	Middle	12	180	13	1
Trix	General	Child	Middle	13	140	12	1
Apple Jacks	Kelloggs	Child	Middle	11	125	14	1
Corn Chex	Ralston	Adult	Bottom	22	280	3	1
Corn Flakes	Kelloggs	Adult	Bottom	21	290	2	1
Nut & Honey	Kelloggs	Adult	Middle	15	190	9	0.67
Smacks	Kelloggs	Child	Middle	9	70	15	0.75
Multi-Grain	General	Adult	Bottom	15	220	6	1
Cracklin	Kelloggs	Adult	Top	10	140	7	0.5
Grape-Nuts	Post	Adult	Top	17	170	3	0.25



3. Determine if each of the following questions would result in categorical or quantitative data.

- a) The number of milligrams of Aspirin given to heart attack patients.
- b) The various types of cars being sold at a used car lot.
- c) Determining if a person smokes marijuana or not.
- d) The number of bicycles sold at various bicycle stores in Seattle, WA.
- e) The types of birds observed in Florida.
- f) The number of grams of gold found in various streams across northern California.
- g) The various types of cardio classes offered at gyms across Los Angeles, CA.
- h) The number of cardio classes offered at gyms across Los Angeles, CA.
- i) The city a person lives in.
- j) The amount of money in peoples' bank accounts.
- k) The various zip codes from addresses at a post office.
- l) The drivers' license numbers from various taxi drivers.
- m) The number of taxis driven in New York City on various days of the week.

4. Classify each of the following columns of categorical data as either nominal or ordinal.

- a) City person lives in.
- b) Income level.
- c) Type of pet owned.
- d) Satisfaction Survey

City Person Lives In	Income Level	Type of Pet Owned	Satisfaction Survey
Reseda	Poor	Cat	Excellent
Northridge	Middle	Dog	Average
Valencia	Poor	Cat	Good
Simi Valley	High	Fish	Poor
Thousand Oaks	Middle	Dog	Average
Woodland Hills	Poor	Lizard	Poor

