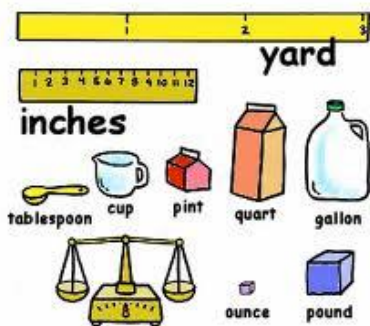


Homework: Categorical vs. Quantitative Data

Determine whether the following variables are **categorical (C)** or **quantitative (Q)**

- _____ **1.** Brand of vehicle purchased by a customer
- _____ **2.** Price of a CD
- _____ **3.** Type of M&Ms preferred by students (peanut, plain)
- _____ **4.** Phone number of each student
- _____ **5.** Height of a 1-year old child
- _____ **6.** Term paper status (turned in on time or turned in late)
- _____ **7.** Gender of the next baby born at a particular hospital.
- _____ **8.** Amount of fluid (oz) dispensed by a machine used to fill bottles with soda
- _____ **9.** Thickness of the gelatin coating on a Vitamin C capsule
- _____ **10.** Brand of computer purchased by a customer
- _____ **11.** State that a person is born in
- _____ **12.** Price of a textbook
- _____ **13.** Zip code of each student in this class
- _____ **14.** Actual weight of coffee in a one pound can
- _____ **15.** Length of a giraffe’s neck

For quantitative variables, ask yourself “Is it a measurement?”



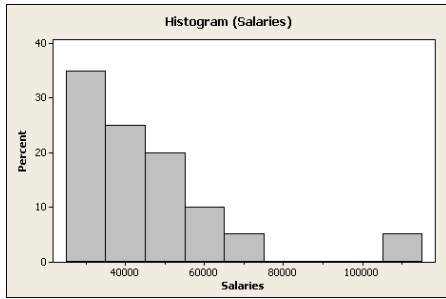
**H
I
N
T
S**

For categorical variables, ask yourself “Is it a type or a classification?”

THE "GO"	CODE NAMES	NAME THE NAMESPACE	HELLO WORLD	MOVIES	BEFORE & AFTER
\$200	\$200	\$200	\$200	\$200	\$200
\$400	\$400	\$400	\$400	\$400	\$400
\$600	\$600	\$600	\$600	\$600	\$600
\$800	\$800	\$800	\$800	\$800	\$800
\$1000	\$1000	\$1000	\$1000	\$1000	\$1000

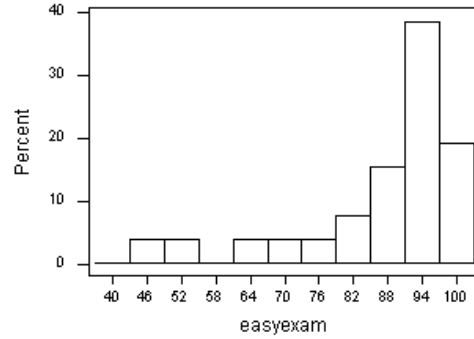
16. Describe the shape of the following distributions:

a.



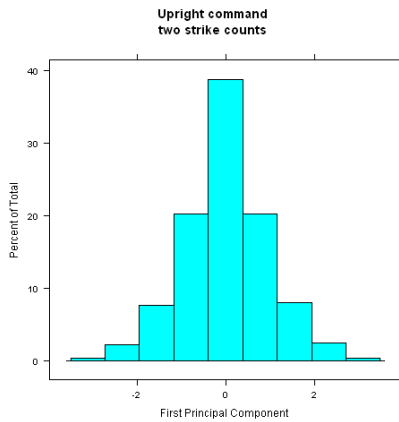
Shape: _____

b.



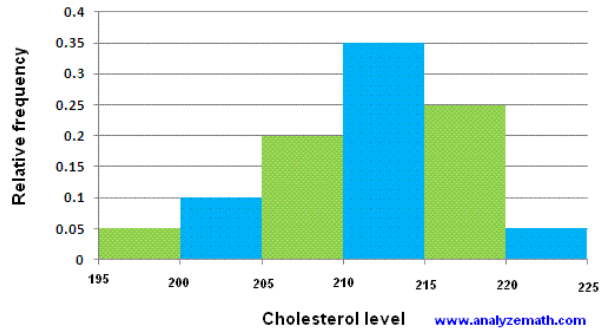
Shape: _____

c.



Shape: _____

d.



Shape: _____

17. Given the following data, calculate the following measures of central tendency:

14, 21, 22, 11, 23, 31, 40, 22, 11, 14, 15, 15, 14, 18

Mean: _____ Median: _____ Mode: _____ Range: _____ Spread: _____

Do you think there are any outliers? If so, list them: _____