Statistical Reasoning Measures of Central Tendency (exame:	QU Date:	Class:
	vs Median vs Mode Pra	<u>ctice</u>
A) Find the mean, median, and mod B) Determine which measure of cer your reasoning. 1. 13, 13, 10, 32, 8, 7, 6, 4, 5	de for each sample datenter best represents the	a set. population's actual mean and just
Mean: 10,89	- 1	ata
Median: 8 — quar Mode: 13	ntitatuie d vith an ou	tlier
2. Yellow \rightarrow 20, Pink \rightarrow 30, Purple \rightarrow 35	, Blue → 24, Green→ 3a	6, Orange → 48, None → 48
Mean: 34,43		
Median: 35		
Mode: 48 (Orange, No	one) for cate	egonical
outier [2,5,4) 1,6,7,4,3,2,19/6	7	
Mean: 5, 36		
Median: 4 Cquan	+ itative d	ata
Median: 4 C quan	W/ outlie	r
130, 140, 135, 125, 42, 160, 175		
Mean: 129.57		
Median: 135 ←		

4.

Mode: ________

5.	Which measure of central tendency do you think gives the best indication of the number of hours, the "typical" person spends sleeping each night? Explain.
	median - qualitative, not symmetric a. Suppose another person was surveyed who said that he spends 3 hours sleeping at night. How would this affect the mean and median?
	Mean: move left
	Median: no change

6. The salaries of all adult in a trailer park are calculated. Which unit of central tendency do you think best describes the typical adult trailer park resident?

mean - symmetric

a. Suppose a millionaire begins experiencing a mid life crisis and moves into the trailer park to get away from his life. How would this affect the mean and median?

Mean: mour right

Median: no change

7. The grades of a Stats class are collected for a summary report. Which unit of central tendency best represents how the class is doing as a whole?

(unless we know of outliers) Mean

a. Suppose a senior college student, who was majoring on statistics, was enrolled into the course at the beginning of the semester. How would this affect the mean and median?

Mean: move right

Median: no change

b. Suppose a high school AP Stat student was enrolled into the course at the beginning of the semester. How would this affect the mean and median?

Mean: move night

Median: no change

c. Suppose a student who fell asleep and played on their phone, every day, was enrolled into the course at the beginning of the semester. How would this affect the mean and median?

Mean: Move left

Median: no change