Math	15	53		Quiz	1
August	$\overline{30}$,	20	18		

Name_	key	
	J	Score

Show all work to receive full credit. Supply explanations when necessary. This quiz is worth 5 points. You must work individually.

1. (2 points) In a study of the Kingman diet and exercise program, 40 subjects lost an average of 22 lbs. There is about a 1% chance of getting such results with a program that has no effect. Are these results statistically significant, practically significant, both, or neither? Briefly explain.

22 lbs seems like A LOT OF WEIGHT. DIETERS WOULD BE INTERESTED. →

WEIGHT LOSS UNLIKELY TO HAPPEN BY CHANCE. > STATISTICAL SIG.

2. (1 point) In a study of 400 babies at four different hospitals in New York State, it was found that the mean birth weight was 3152.0 grams. Is 3152.0 a statistic or parameter? Briefly explain how you know.

THE 400 BABIES ARE A SAMPLE FROM A BIGGER POPULATION.

3150.0 12 A 2TATISTIC.

- 3. (1 point) Are the data discrete or continuous?
 - (a) Weight gains by randomly selected students during their freshman year

CONTINUOUS

(b) Numbers of Corvettes manufactured during each production day

DISCRETE

- · 4. (1 point) Determine the level of measurement of the following data.
 - (a) Voters are asked the political party with which they affiliate.

NOMINAL

(b) A baseball statistician records the years in which a National League team won the World Series.

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