

Quiz 1: Ch 1

Dr. Jorge Basilio

NAME (PRINT): Solutions

SCORE: _____

SIGNATURE: _____

Directions

- YOU ARE ALLOWED TO USE A CALCULATOR ON THIS EXAM. (Ti83/Ti83+/Ti84/Ti84+/Ti84+CE-T, or scientific calculator)
- Handwriting should be neat and legible. If I cannot read your writing, zero points will be given.
- Make sure to ALWAYS SHOW YOUR WORK; you will not receive any partial credits unless work is clearly shown. *If in doubt, ask for clarification.*
- Leave answers in exact form (as simplified as possible), unless told otherwise.
- Put a box around your final answer where applicable.

Quiz (20 points)

Problem 1: 6 pts

Identify whether the given data set is **qualitative** or **quantitative**.
If the data is quantitative, also determine whether it is **discrete** or **continuous**:

- (a) QN - continuous / QN Precise length of a snowboard
- (b) QL Most popular Olympic Events
- (c) QN - discrete Number of medals a country wins
- (d) QN - continuous Precise distance a ski jumper jumps
- (e) QN - discrete Number of units taken by a student this semester
- (f) QL Jersey numbers of the PCC football team

Problem 2: 4 pts

Identify appropriate **level of measurement** (nominal, ordinal, interval, ratio):

- (a) ordinal T-Shirt sizes (XS, S, M, L, XL)
- (b) nominal Social Security Numbers
- (c) ratio Cost of a gallon of gas true zero ✓
- (d) interval Birth Years of American Presidents true zero ✗

Problem 3: 4 pts

Determine the **type of sampling** used (random, simple random, stratified, systematic, cluster, or convenience):

- (a) cluster A group of test subjects is divided into twelve groups; then two of the groups are chosen at random.
- (b) convenience The first 50 people who walk into a sporting event are polled on their television preferences.
- (c) simple random A computer generates 100 random numbers, and 100 people whose names correspond with the numbers on the list are chosen.
- (d) systematic A market researcher polls every fifth person who walks into a store.

Problem 4: 6 pts

For the following scenario, identify the **key terms**:

An instructor would like to determine the **average level of test anxiety** in **community college students**. She has the **35 students** in her class take the Westside Test Anxiety Survey and they had an average score of 3.1 out of 5.

- (a) population all community college students
- (b) sample the 35 students in instructor's class
- (c) parameter average level of test anxiety of all CC students
- (d) statistic average level of test anxiety of 35 students
- (e) variable level of test anxiety on Westside Test Anxiety survey
- (f) data average score of 3.1
- (g) (Bonus Q: 1 point) What type of sampling was used (simple random, cluster, stratified, systematic, or convenience)?

← either one seems appropriate →