

## Algebra 1B

## Unit 7-10 Review #2

1. \_\_\_\_\_

Which set of data can be classified as qualitative?

- 1) scores of students in an algebra class
- 2) ages of students in a biology class
- 3) numbers of students in history classes
- 4) eye colors of students in an economics class

2. \_\_\_\_\_

A survey is being conducted to determine if a cable company should add another sports channel to their schedule. Which random survey would be the least biased?

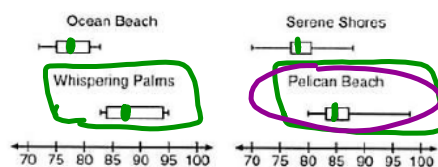
- 1) surveying 30 men at a gym
- 2) surveying 45 people at a mall
- 3) surveying 50 fans at a football game
- 4) surveying 20 members of a high school soccer team

biased - Bad Survey

least or not - good survey  
Biased

3. \_\_\_\_\_

Corinne is planning a beach vacation in July and is analyzing the daily high temperatures for her potential destination. She would like to choose a destination with a high median temperature and a small interquartile range. She constructed box plots shown in the diagram below.



Which destination has a median temperature above 80 degrees and the smallest interquartile range? Q1 to Q3

- 1) Ocean Beach
- 2) Whispering Palms
- 3) Serene Shores
- 4) Pelican Beach

small box

4. \_\_\_\_\_

The two sets of data below represent the number of runs scored by two different youth baseball teams over the course of a season.

Team A: 4, 8, 5, 12, 3, 9, 5, 2

Team B: 5, 9, 11, 4, 6, 11, 2, 7

Which set of statements about the mean and standard deviation is true?

- 1)  mean  $A <$  mean  $B$   
 standard deviation  $A >$  standard deviation  $B$
- 2) ~~mean  $A >$  mean  $B$~~   
~~standard deviation  $A <$  standard deviation  $B$~~
- 3) mean  $A <$  mean  $B$   
~~standard deviation  $A <$  standard deviation  $B$~~
- 4) ~~mean  $A >$  mean  $B$~~   
 standard deviation  $A >$  standard deviation  $B$

mean A: 6  
 mean B: 6.875  
 St. Dev A: 3.16  
 St. Dev B: 3.06

5. Write out a five-number summary, find the interquartile range and construct a box plot for the following data.

Attendance at the movie theater in previous nine days:

68, 99, 65, 73, 62, 67, 80, 81, 83

min = 62  
 Q1 = 66  
 med = 73  
 Q3 = 82  
 max = 99

