

Question 1 (Multiple Choice Worth 5 points)

(06.01 MC)

The following data shows the scores Gina obtained on 12 IQ tests:

93, 83, 74, 74, 83, 92, 93, 94, 90, 87, 83, 86

The box plot below represents the data:

Which of the following is shown incorrectly in the box plot?

- Median
- Lower quartile
- Upper quartile
- Maximum value

Question 2 (Multiple Choice Worth 5 points)

(06.02 LC)

The box plots below show the math scores of students in two different classes:

Based on the box plots, which statement is correct?

- The median score of Class A is greater than the median score of Class B.
- The lower quartile of Class A is greater than the lower quartile of Class B.
- The upper quartile of Class A is greater than the upper quartile of Class B.
- The maximum score of Class A is greater than the maximum score of Class B.

Question 3 (Multiple Choice Worth 5 points)

(06.07 LC)

The table below shows the number of years after the year 2000 and the percentage of people of a country owning homes:

Number of years after 2000 (x)	2	4	5	13	7	6
Percentage of people owning homes (y)	24%	32%	36%	20%	28%	44%

What is the correlation coefficient for the data, and what does it represent?

- 0; it represents no correlation between x and y
- 1; it represents a perfectly linear positive correlation between x and y
- 1; it represents a perfectly linear negative correlation between x and y
- 1; it represents a perfectly linear negative correlation between x and y