

GRE Statistics: Practice Questions with Answers

1. The daily temperatures, in degrees Fahrenheit, for 10 days in May were 61, 62, 65, 65, 68, 74, 74, 75, and 77.

(a) Find the mean, median, mode, and range of the temperatures.

(b) If each day had been 7 degrees warmer, what would have been the mean, median, mode, and range of those 10 Temperatures?

2. The numbers of passengers on 9 airline flights were 22, 33, 21, 28, 22, 31, 44, 50, and 19. The standard deviation of these 9 numbers is approximately equal to 10.2.

(a) Find the mean, median, mode, range, and interquartile range of the 9 numbers.

(b) If each flight had had 3 times as many passengers, what would have been the mean, median, mode, range, interquartile range, and standard deviation of the nine numbers?

(c) If each flight had had 2 fewer passengers, what would have been the interquartile range and standard deviation of the nine Numbers?

3. A group of 20 values has a mean of 85 and a median of 80. A different group of 30 values has a mean of 75 and a median of 72.

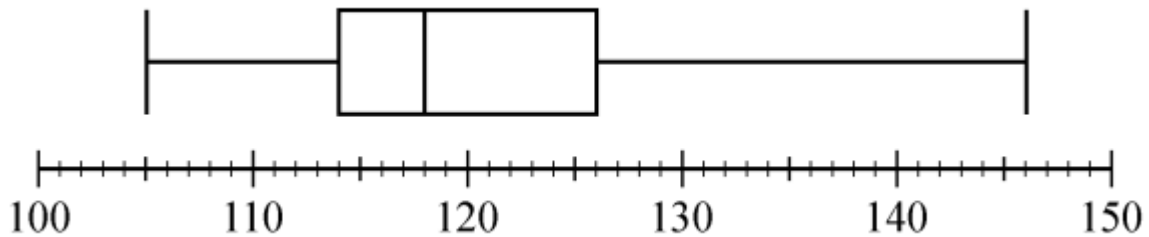
(a) What is the mean of the 50 values?

(b) What is the median of the 50 values?

4. Find the mean and median of the values of the random variable X, whose relative frequency distribution is given in the table in Data Analysis

X	Relative Frequency
0	0.18
1	0.33
2	0.10
3	0.06
4	0.33

5. Eight hundred insects were weighed, and the resulting measurements, in milligrams, are summarised in the boxplot in Data Analysis Figure 25 below.



(a) What are the range, the three quartiles, and the interquartile range of the measurements?

(b) If the 80th percentile of the measurements is 130 milligrams, how many measurements are between 126 milligrams and 130 milligrams?

Solution for the GRE Statistics Practice Questions

1. In degrees Fahrenheit, the statistics are

(a) mean = 68.6, median = 66.5, mode = 65, range = 16

(b) mean = 75.6, median = 73.5, mode = 72, range = 16

2. (a) mean = 30, median = 28, mode = 22, range = 31, interquartile range = 17

(b) mean = 90, median = 84, mode = 66, range = 93, interquartile range = 51

standard deviation $3 \sqrt{940/9} \approx 30.7$

(c) interquartile range = 17, = standard deviation ≈ 10.2

3. (a) mean = 79

(b) The median cannot be determined from the information given.

4. mean = 2.03, median = 1

5. (a) range 41, Q1 = 114, Q2 = 118, Q3 = 126, interquartile range = 12

(b) 40 measurements

[Source](#)