

GRE Data Interpretation Practice Questions 1

1. The daily temperatures, in degrees Fahrenheit, for 10 days in May were 61, 62, 65, 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?

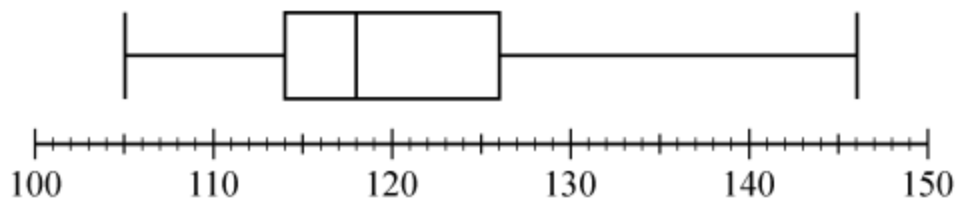
3. A group of 20 values has a mean of 85 and a median of 80. A different group of 30 values has a mean of 75 and a median of 72.

- (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 Figure 24 below.

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 summarized 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, about how many measurements are between 126 milligrams and 130 milligrams?
6. In how many different ways can the letters in the word STUDY be ordered?
7. Martha invited 4 friends to go with her to the movies. There are 120 different ways in which they can sit together in a row of 5 seats, one person per seat. In how many of those ways is Martha sitting in the middle seat?
8. How many 3-digit positive integers are odd and do not contain the digit 5 ?
9. From a box of 10 lightbulbs, you are to remove 4. How many different sets of 4 lightbulbs could you remove?
10. A talent contest has 8 contestants. Judges must award prizes for first, second, and third places, with no ties.
- (a) In how many different ways can the judges award the 3 prizes?
- (b) How many different groups of 3 people can get prizes?