

# GRE Quant Foundation Assessment Test (Data Analysis - Part 1)

Total points 15/30 ?

This is an assessment designed to assess your GRE Quant Foundation knowledge. None of the questions are tricky. None of the questions are puzzles. They solely test knowledge.

**Calculators:** You can use a calculator but it has to be one of those crappy ones like the one on your phone when you turn it vertically. Or the one on the ETS website in the PowerPrep exams. Or <https://www.gregmat.com/tools/calculator>

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✗ Which of the following are measures of central tendency?

0/1

*Select all that apply.*

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Mode                | ✓ |
| <input checked="" type="checkbox"/> Range               | ✗ |
| <input checked="" type="checkbox"/> Median              | ✓ |
| <input checked="" type="checkbox"/> Standard Deviation  | ✗ |
| <input checked="" type="checkbox"/> Mean                | ✓ |
| <input checked="" type="checkbox"/> Interquartile Range | ✗ |

Correct answer

- ☒ Mode
- ☒ Median
- ☒ Mean

✓ What is the average of the first nine positive integers?

1/1

5

✓

✓ What is the median of the first 20 positive integers?

1/1

10.5

✓



✓ It is possible for a list of data to have three modes.

1/1

☒ True



☐ False

✓ The mean and median of the set below are equal.

1/1

$\{-10, -5, -1, 2, 4, 5, 6, 8, 11, 15, 20\}$

☒ True



☐ False

✓ Median is both a measure of central tendency and a measure of position. 1/1

☒ True



☐ False

✗ What is the Q1 value of a set containing the first ten positive integers? 0/1

3.5



Correct answers

3

three



✗ What is the average of a list that contains ninety 3s and ten 20s?

.../1

47

✗

Correct answer

4.7

✗ What is the interquartile range of the set below?

0/1

{7, 12, 19, 3, 15}

8

✗

Correct answers

12

twelve

✗ A set contains 4,500 distinct values.

0/1

Which of the following quantities is bigger?

- ☐ The number of values in the 12th percentile.
- ☐ The number of values in the 51st percentile.
- ☐ The two quantities are equal.
- ☒ It cannot be determined.

✗

Correct answer

- ☒ The two quantities are equal.



- ✗ In an infant ward of a hospital, the ages of the youngest babies range from 0/1 3 days old to 12 days old (both inclusive), and the ages of the oldest babies range from 49 days old to 58 days old (both inclusive). Considering the ages of all the babies in the ward, what is the difference between the maximum possible range and minimum possible range?

**NOTE:** Each age interval contains at least one baby.

0

✗

Correct answers

18

18 days

- ✓ From a boxplot, it is always possible to determine which of the following pieces of information? 1/1

*Select all that apply.*

☐ Mean

☒ Median

✓

☒ Interquartile Range

✓

☒ Range

✓

☐ Standard Deviation

- ✓ What is the standard deviation of a set that contains only 12 and 20? 1/1

4

✓



✗ Which of the following quantities is bigger?

0/1

- ☐ The standard deviation of the first ten positive integers.
- ☐ The standard deviation of the integers from 11 to 20, inclusive.
- ☐ The two quantities are equal.
- ☒ It cannot be determined.

✗

Correct answer

- ☒ The two quantities are equal.

✗ Which of the following quantities is bigger?

0/1

- ☐ The standard deviation of the set {99, 100, 101, 102, 103}
- ☐ The standard deviation of the set {-5, -4, -3, -2, -1}
- ☐ The two quantities are equal.
- ☒ It cannot be determined.

✗

Correct answer

- ☒ The two quantities are equal.



✗ Which of the following quantities is bigger?

0/1

- ☐ The standard deviation of the set {10, 11, 12, 13, 14}
- ☒ The standard deviation of the set {15, 16, 17, 18}
- ☐ The two quantities are equal.
- ☐ It cannot be determined.

✗

Correct answer

- ☒ The standard deviation of the set {10, 11, 12, 13, 14}

✗ In a certain list of data with more than two elements, the population standard deviation is larger than the sample standard deviation.

0/1

- ☒ True
- ☐ False

✗

Correct answer

- ☒ False

✓ If the standard deviation of the set {7,  $x+3$ ,  $x+11$ } is 3, what is the standard deviation of the set {4,  $x$ ,  $x+8$ }? 1/1

3

.....

✓



✓ The standard deviation of a certain set of distinct values is  $x$ . If every member of the set were to be divided in half, then the standard deviation of the new set would be which of the following? 1/1

- ☐  $x$
- ☐  $x-2$
- ☒  $x/2$
- ☐  $2x$
- ☐ It cannot be determined.



✗ Standardizing, or "norming", a set containing only the values 3 and 12 results in two new values of the form  $\{x, y\}$ , where  $x$  and  $y$  are integers. What is  $\{x, y\}$ ? 0/1

*Write your answer using the curly brackets in the form of  $\{x, y\}$ .*



Correct answers

$\{-1, 1\}$

$\{-1, 1\}$

$\{1, -1\}$

$\{-1, 1\}$





✗ Which of the following correctly characterizes a list?

0/1

*Select all that apply.*

- ☒ Lists can contain an infinite number of members. ✗
- ☒ The order of the elements in a list does not matter. ✗
- ☒ Repeated values are considered distinct members of a list. ✓

Correct answer

- ☒ Repeated values are considered distinct members of a list.

✗ What is the  $|S|$  value of the set below?

0/1

$\{4, 8, 13, 17, 2, 11\}$

✗

Correct answers

6

six

✗ How many subsets can be created from a set that contains eight values? 0/1

28 ✗

Correct answer

256



✓ The set  $\{3, 1, 3\}$  contains three members.

1/1

☐ True

☒ False



✓ What is the sum of every member of  $A \cap B$ ?

1/1

$$A : \{1, 3, 5, 7, 9\}$$
$$B : \{2, 4, 5, 7, 10\}$$

12



✓ A set can contain zero members.

1/1

☒ True

☐ False



✓ What is the sum of every member of  $A \cup B$ ?

1/1

$$A : \{2, 5, 8, 11\}$$
$$B : \{1, 3, 5, 7, 9, 11\}$$

46



✓ In a school of 90 students, 75 take biology and 52 take chemistry. Five students take neither. How many students take both? 1/1

42



✓ In a certain neighborhood with 87 houses, 40 have a pool and 65 have a garage. If 17 houses have a pool but no garage, how many houses have neither? 1/1

5



✗ In a certain neighborhood with 110 houses, 40 have a pool, 85 have a garage, and 45 have a garden. If every house has at least one of the three options and 20 houses have all three, how many of the houses have exactly two of the options? 0/1

60



Correct answers

20

twenty

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