Graded Quiz: Types of Data

Graded Quiz • 40 min

1. A bank holds data of different account holders. This data includes the account holder's account number, the account holder's primary branch of operation, the monthly fee for maintaining the account type (free/lite/gold/platinum), and the account holder's bank balance. What is the account holder's account number? **1 / 1 point**

- Cardinal data
- Ordinal data
- Numerical data
- Nominal data (selected)

Correct
Although the account number is a number, it is not useful to perform numerical operations on this number, and it serves mostly for identification purposes.

2. A bank holds data of different account holders. This data includes the account holder's account number, the account holder's primary branch of operation, the monthly fee for maintaining the account type (free/lite/gold/platinum), and the account holder's bank balance. What is the account holder's primary branch of operation here? **1 / 1 point**

- Numerical data
- Ordinal data
- Nominal data
- Cardinal data (selected)

Correct
Customers can be categorized by their primary branch of operations usefully, but these branches cannot be ordered in a simple, useful way, making this cardinal data.

3. A bank holds data of different account holders. This data includes the account holder's account number, the account holder's primary branch of operation, the monthly fee for maintaining the account type (free/lite/gold/platinum), and the account holder's bank balance. What is the account holder's monthly fee? **1 / 1 point**

- Nominal data
- Ordinal data (selected)
- Cardinal data
- Numerical data

Correct
The account types can be ordered based on the monthly fee for that account.

4. A bank holds data of different account holders. This data includes the account holder's account number, the account-holder's primary branch of operation, the monthly fee for maintaining the account type (free/lite/gold/platinum), and the account holder's bank balance. What is the account holder's bank balance? **1 / 1 point**

- Numerical data (selected)
- Cardinal data
- Nominal data
- Ordinal data

Correct
The bank balance can take any numerical value. It is also sensible to do arithmetic operations on account holders' bank balance.

5. Which of the following types of data can be reasonably plotted on a scatter plot? 1 / 1 point

- ○ Ordinal data
- ○ Nominal data
- ◉ Numerical data
- ○ Cardinal data

Correct
A scatter plot typically has numerical horizontal and vertical axes, and hence numerical data can be plotted here.

6. Consider the following data:

Customer id	Location	Number of purchases	Total value of purchases
65432	USA	12	$88.00
65433	USA	13	$134.00
65434	Europe	5	$66.00
65435	USA	6	$71.00
65436	Europe	5	$40.00
65437	Europe	6	$65.00
65438	India	8	$79.00
65439	USA	10	$91.00
65440	Europe	7	$73.00
65441	India	14	$118.00
65442	USA	9	$102.00
65443	Europe	5	$62.00
65444	USA	8	$83.00
65445	Europe	6	$58.00
65446	India	6	$70.00

What is the mean of the number of purchases that have happened as per the data in the provided table?

- ○ 7
- ◉ 8
- ○ 8.48
- ○ 7.52

Correct
You have divided the sum of all purchases by 15, which is correct.

7. Consider the following data: 1 / 1 point

Customer id	Location	Number of purchases	Total value of purchases
65432	USA	12	$88.00
65433	USA	13	$134.00
65434	Europe	5	$66.00
65435	USA	6	$71.00
65436	Europe	5	$40.00
65437	Europe	6	$65.00
65438	India	8	$79.00
65439	USA	10	$91.00
65440	Europe	7	$73.00
65441	India	14	$118.00
65442	USA	9	$102.00
65443	Europe	5	$62.00
65444	USA	8	$83.00
65445	Europe	6	$58.00
65446	India	6	$70.00

What is the median of the number of purchases that have happened as per the data in the provided table?

- 8
- 9
- 7
- 10

Correct
The median is obtained as the central most observation after sorting the data, which you have done correctly.

8. Consider the following data: **1 / 1 point**

Customer id	Location	Number of purchases	Total value of purchases
65432	USA	12	$88.00
65433	USA	13	$134.00
65434	Europe	5	$66.00
65435	USA	6	$71.00
65436	Europe	5	$40.00
65437	Europe	6	$65.00
65438	India	8	$79.00
65439	USA	10	$91.00
65440	Europe	7	$73.00
65441	India	14	$118.00
65442	USA	9	$102.00
65443	Europe	5	$62.00
65444	USA	8	$83.00
65445	Europe	6	$58.00
65446	India	6	$70.00

Sort the three regions – USA, Europe, and India – based on the average of the total value of the purchase by each customer.

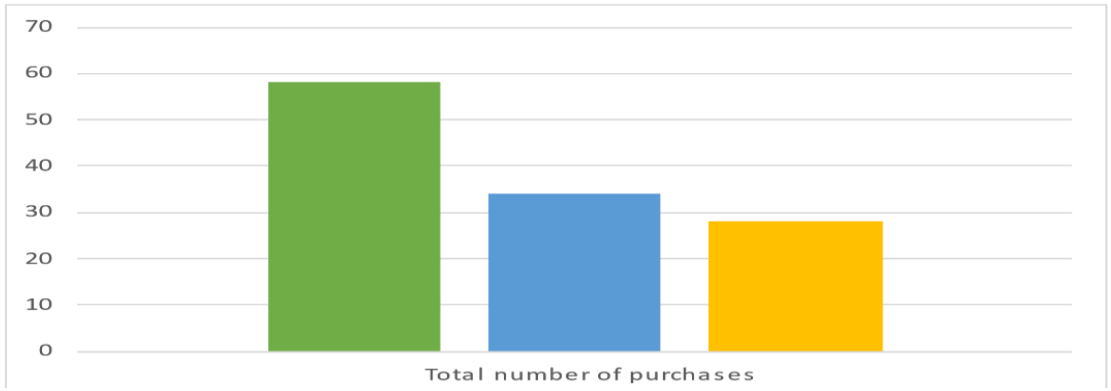
- Europe > USA > India
- USA > India > Europe
- India > USA > Europe
- USA > Europe > India

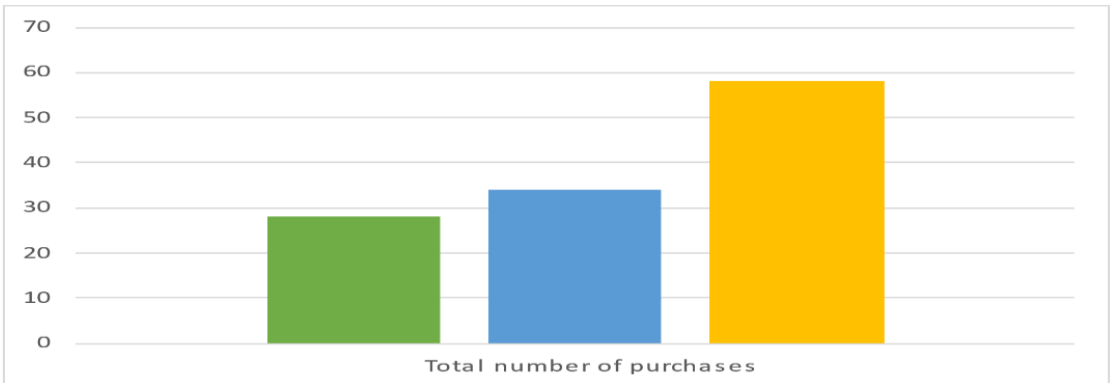
Correct
You calculated three means for each country to correctly induce an order among these countries.

9. Consider the following data: **1 / 1 point**

Customer id	Location	Number of purchases	Total value of purchases
65432	USA	12	$88.00
65433	USA	13	$134.00
65434	Europe	5	$66.00
65435	USA	6	$71.00
65436	Europe	5	$40.00
65437	Europe	6	$65.00
65438	India	8	$79.00
65439	USA	10	$91.00
65440	Europe	7	$73.00
65441	India	14	$118.00
65442	USA	9	$102.00
65443	Europe	5	$62.00
65444	USA	8	$83.00
65445	Europe	6	$58.00
65446	India	6	$70.00

Which of the following graphs best represents the total number of purchases made by customers in different geographies?





Correct

You calculated three sums for each country to induce an order among these countries correctly.

10. Consider the following data:

1 / 1 point

Customer id	Location	Number of purchases	Total value of purchases
65432	USA	12	$88.00
65433	USA	13	$134.00
65434	Europe	5	$66.00
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65438	India	8	$79.00
65439	USA	10	$91.00
65440	Europe	7	$73.00
65441	India	14	$118.00
65442	USA	9	$102.00
65443	Europe	5	$62.00
65444	USA	8	$83.00
65445	Europe	6	$58.00
65446	India	6	$70.00

Select the most accurate option.

Statement 1: It does not make sense to consider the average of the customer IDs in the given data.

Statement 2: Customer IDs are of the type – *nominal data* – and are mostly used for identification purposes.

- ○ Statement 1 is true and statement 2 is false.
- ◉ Statement 1 is true. Statement 2 is true. Statement 2 is the correct explanation of Statement 1.
- ○ Statements 1 and 2 are both false.
- ○ Statement 1 is true. Statement 2 is true. Statement 2 is not the correct explanation of Statement 1.

Correct
Customer ID, despite being a number, cannot be used for calculation. This is a reflection of the fact that it is of the type “nominal data.”