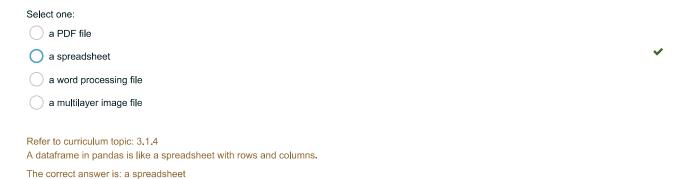
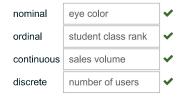


Which file type is most similar to a dataframe in pandas?



Question 2 Correct Mark 2.00 out of 2.00

Match the variable with the type of value.



Refer to curriculum topic: 3.1.1

The correct answer is: nominal  $\rightarrow$  eye color, ordinal  $\rightarrow$  student class rank, continuous  $\rightarrow$  sales volume, discrete  $\rightarrow$  number of users

Question 3	
Correct	
Mark 2.00 out of 2.00	

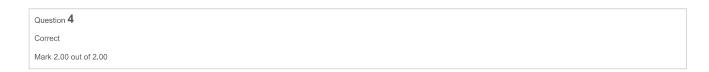
A data analyst performs a correlation analysis between two quantities. The result of the analysis is an r value of 0. What does this mean?

# Select one: The analysis failed. The two variables have no relationship. Neither variables changed during the period. When one variable increases its value, the other variable reduces its value.

## Refer to curriculum topic: 3.1.5

The commonly used correlation coefficient, Pearson r, (or r value), is a quantity that is expressed as a value between -1 and 1. Positive values indicate a positive relationship between the changes in two quantities. Negative values indicate an inverse relationship. The magnitude of either the positive or negative values indicates the degree of correlation. The closer the value is to 1 or -1, the stronger the relationship. 0 indicates no relationship.

The correct answer is: The two variables have no relationship.



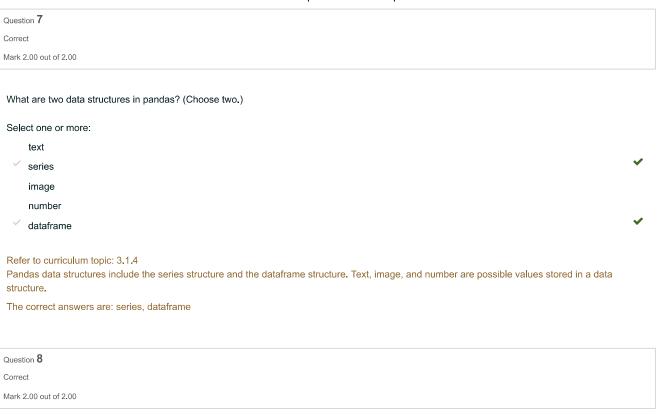
## Match the variable with the description.

ordinal	qualitative values in order of ranking	~
nominal	qualitative values based on identity of the object	~
continuous	quantitative values with infinite range	~
discrete	quantitative and finite set of values	~

# Refer to curriculum topic: 3.1.1

The correct answer is: ordinal  $\rightarrow$  qualitative values in order of ranking, nominal  $\rightarrow$  qualitative values based on identity of the object, continuous  $\rightarrow$  quantitative values with infinite range, discrete  $\rightarrow$  quantitative and finite set of values

Question 5
Correct
Mark 2.00 out of 2.00
A data analyst studies two variables over a period. Data set A is (100, 90, 81, 73) and data set B is (3500, 3150, 2835, 2552). The Pearson r value between these two variables is 0.99. Which statement describes the correlation between them?
Select one:
It indicates no relationship.
It is a weak negative correlation.
O It is a strong positive correlation.
It is a strong negative correlation.
Refer to curriculum topic: 3.1.5  The Pearson r is a quantity to indicate the correlation between two variables. It is expressed as a value between -1 and 1. Positive values express a positive relationship between the changes in two variables. Negative values express an inverse relationship. The magnitude of either the positive or negative values indicates the degree of correlation. In other words the closer the value is to 1 or -1, the stronger the relationship. 0 indicates no relationship.
The correct answer is: It is a strong positive correlation.
Question 6
Correct
Mark 2.00 out of 2.00
What category of variables includes nominal or ordinal variables?
Select one:
numerical
○ categorical ✓
_ ratio
interval
Refer to curriculum topic: 3,1,1  Variables are classified as either categorical or numerical. Categorical variables include nominal and ordinal variables.
The correct answer is: categorical



In a graphical reppresentation of the distribution for a discrete variable, what does the X and Y axis reppresent? (Choose two.)

### Select one or more:



# Refer to curriculum topic: 3.1.3

A distribution can be graphed in two dimensions using two characteristics: the variable and the probability. Typically the variable is plotted on the x-axis and the probability on the y-axis.

The correct answers are: variable, probability

Question 9
Correct
Mark 2.00 out of 2.00
What relationship is an example of causation?
Select one:
a relationship between sensors and actuators in IoT
a relationship in which two things change at a similar rate
a relationship between a computer operating system and one or more programming languages
a relationship when a change in one thing directly results in something else changing
Refer to curriculum topic: 3.1.5  Causation describes a relationship in which one thing changes, or is created, directly because of something else. It is not the relationship of the rate of change. Sensors and actuators in IoT are not directly related to each other. A controller might receive the signal from a sensor, make a decision, and instruct an actuator to act if necessary. Also, operating systems and programming languages are not dependent on each other. An operating system can be made by different programming languages.
The correct answer is: a relationship when a change in one thing directly results in something else changing
Question 10
Correct
Mark 2.00 out of 2.00
What term describes the key characteristics that are observed or measured as part of an experiment or analysis?
Select one:
○ variable ✓
O data set
statistics
population
Refer to curriculum topic: 3.1.1  Variables are the key characteristics that are measured or observed as part of an experiment or an analysis.
The correct answer is: variable

Question 11
Correct
Mark 2.00 out of 2.00
Which term is used to describe a graph of distribution where the peak is left of center or right of center?
Select one:
skewed
normal
bimodal
symmetric
Refer to curriculum topic: 3.1.3
When a graph of distribution has the peak left or right of center, this is known as skew.  The correct answer is: skewed
The conect answer is, skewed
Question 12
Correct
Mark 2.00 out of 2.00
Which statement is an accurate description of discrete variables?
Select one:
Discrete variables are qualitative and consist of two or more categories in which order matters.
They are quantitative with a continuous range of values.
They are quantitative with a finite set of values.
They are qualitative and consist of two or more categories of values in which order does not matter.
Refer to curriculum topic: 3.1.1
Variables are either categorical or numeric. Numerical variables are qualitative and are either continuous or discrete. Discrete variables are those from a finite set of values such as the number of users on the network.
The correct answer is: They are quantitative with a finite set of values.

Question 13
Correct
Mark 2.00 out of 2.00
What is a measurement of central tendency that is also known as the average?
Select one:
mode
○ mean
median
O Person r
Refer to curriculum topic: 3.1.3  There are three common measures of central tendency: mean, median, and mode. Each expresses the values that a variable has that is closest to
the central distribution of a data set. The mean is also known as the average, which is the sum of all data divided by the number of values in the data
set.  The correct answer is: mean
The correct answer is, mean
Question 14
Correct
Mark 2.00 out of 2.00
What is a purpose of using the <b>head</b> Linux command?
Select one:
to determine the size of the file
to display the permissions on the file
oto verify that the file is available and preview the first few lines
to determine whether the file contains enough code to be executable
Refer to curriculum topic: 3.1.4
The <b>head</b> Linux command reads the first few lines of a file and writes them to the standard output (by default, the display screen). This command is useful to verify the existence and the content of a file before it is imported into pandas.
The correct answer is: to verify that the file is available and preview the first few lines

Question 15
Correct
Mark 2.00 out of 2.00
Which term is used to describe the difference between the highest and the lowest values for a variable?
Select one:
range
mode
variance
standard deviation
skew
Refer to curriculum topic: 3.1.3  The range is the difference between the highest and lowest values for a variable. By knowing the range, someone looking at the data can have a basic idea if the data is making sense.
The correct answer is: range
Question 16
Correct  Mark 2.00 and at 2.00
Mark 2.00 out of 2.00
Which term is used to describe the right and left ends of a distribution graph?
Select one:
◯ tail
end
○ peak
) axis
Refer to curriculum topic: 3.1.3 On a distribution curve, the right and left ends of the graphed curve are known as the tails.
The correct answer is: tail
◆ Chapter 3 Terms and Concepts Practice
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Machine Learning ►

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