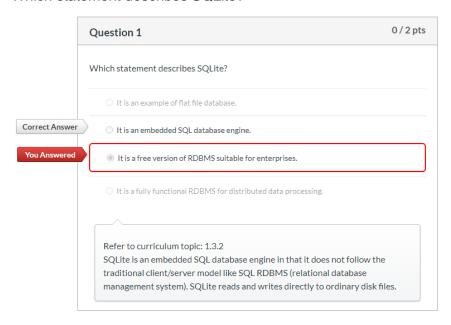
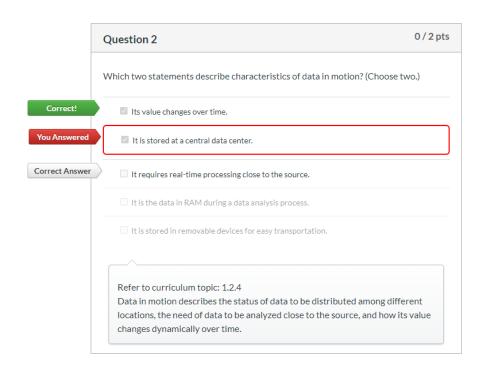
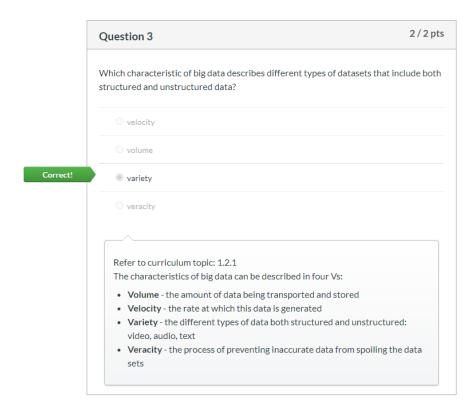
Which statement describes SQLite?



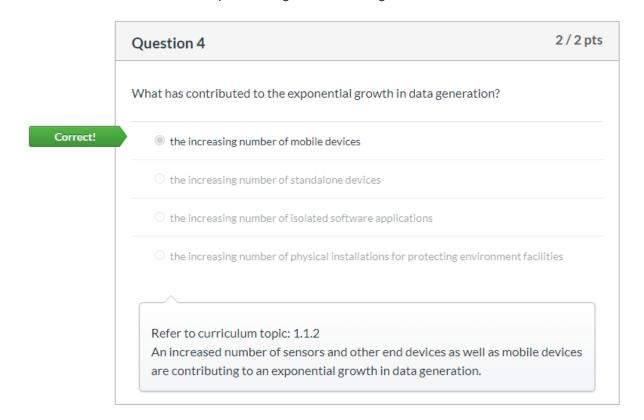
Which two statements describe characteristics of data in motion? (Choose two.)



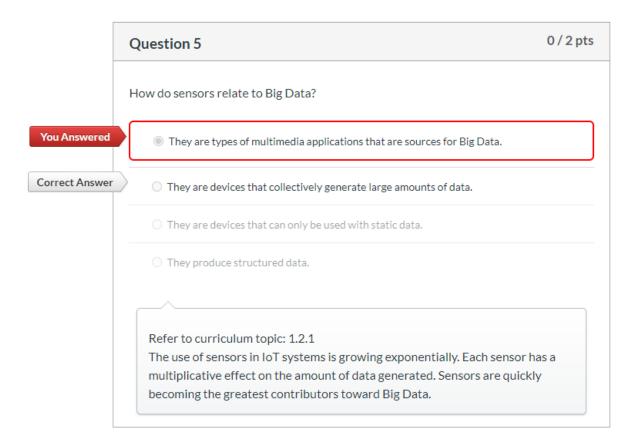
Which characteristic of big data describes different types of datasets that include both structured and unstructured data?



What has contributed to the exponential growth in data generation?



How do sensors relate to Big Data?



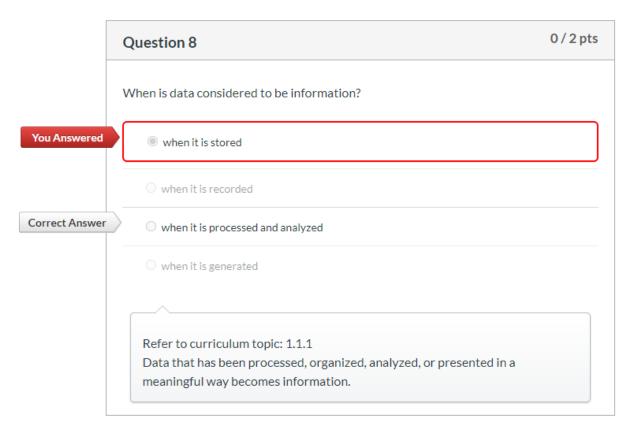
A multi-campus school wants to perform analytics on classes held during the past 5 years. The school wants to know which classes filled up the quickest across all campuses and which classes filled up the quickest at each campus. The school also wants to know if there is a relationship between the number of passing students and the speed in which a class taught by a particular teacher fills. If the school could only choose one type of database to store the data on one server, which type would be best suited for this task?

	Question 6	0 / 2 pts
	A multi-campus school wants to perform analytics on classes held during the payears. The school wants to know which classes filled up the quickest across all campuses and which classes filled up the quickest at each campus. The school a wants to know if there is a relationship between the number of passing student the speed in which a class taught by a particular teacher fills. If the school could choose one type of database to store the data on one server, which type would suited for this task?	lso s and only
You Answered	flat	
	○ local	
	○ Hadoop	
Correct Answer	o relational	
	Refer to curriculum topic: 1.3.2	
	A relational database, even though it has multiple, connected tables, can re- on one server and would be best for this type of data. A local database is	ide
	typically used to collect and store local data, for example, a database of all	
	movies and music for a particular family. A flat database would most likely not be used in a multi-location school to store student data such as this. Hadool best to use when distributing processing power across server clusters.	

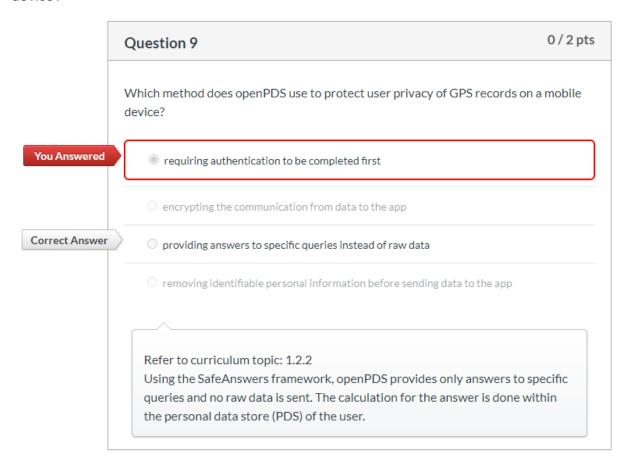
Which type of information is captured and stored as events happen?

	Question 7	0 / 2 pts
	Which type of information is captured and stored as events happen?	
You Answered	◎ critical	
	O analytical	
	O comparative	
Correct Answer	○ transactional	
	Refer to curriculum topic: 1.2.1	
	The two primary types of business information useful to a company are	ation
	transactional information and analytical information. Transactional inform is captured and stored as events happen. Transactional information can be	
	to analyze daily sales reports and production schedules to determine how	
	inventory to carry. Analytical information supports managerial analysis tas	
	like determining whether the organization should build a new manufacturi plant or hire additional sales personnel.	ng

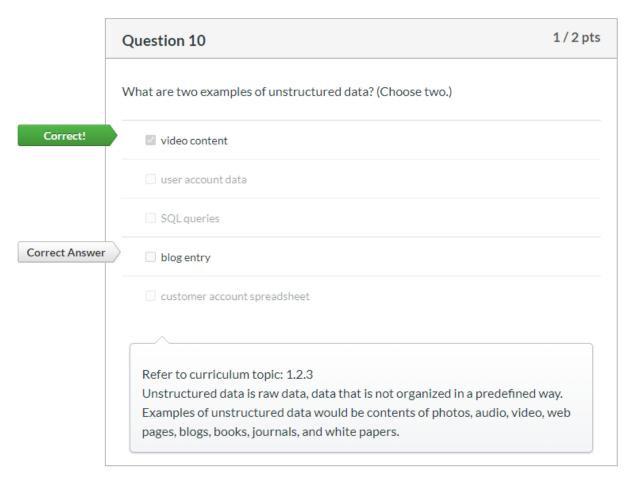
When is data considered to be information?



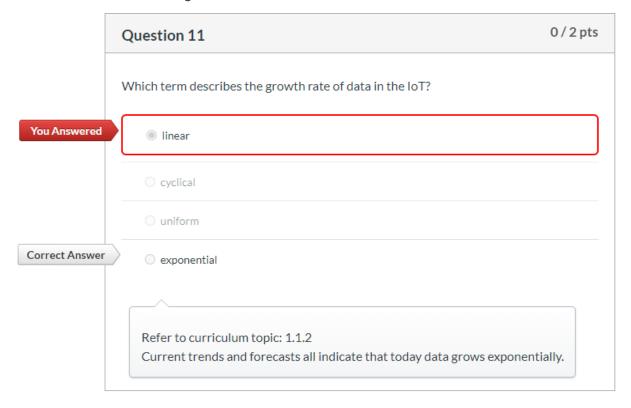
Which method does openPDS use to protect user privacy of GPS records on a mobile device?



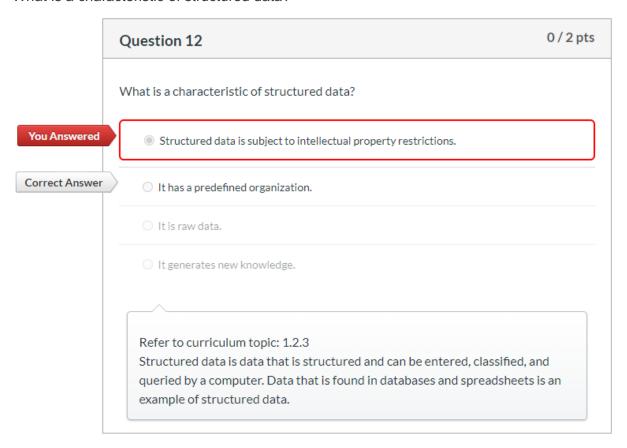
What are two examples of unstructured data? (Choose two.)



Which term describes the growth rate of data in the IoT?



What is a characteristic of structured data?



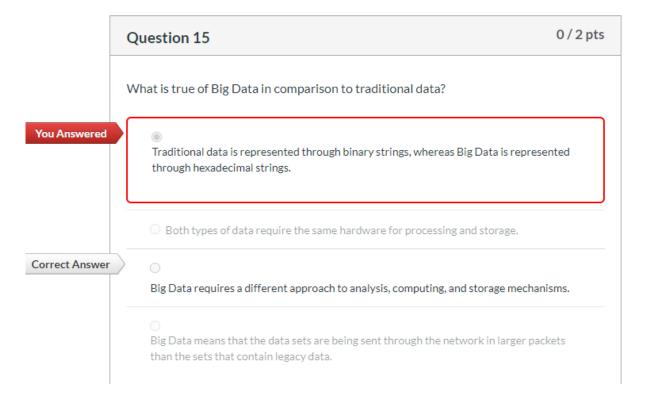
In the data analysis process, which sequence depicts the work flow suitable for data at rest?

	Question 13	0/2 pts
	In the data analysis process, which sequence depicts the work flow suitable for rest?	or data at
You Answered	act > analyze > store > notify	
	analyze > notify > act > store	
	onotify > store > act > analyze	
Correct Answer	ostore > analyze > notify > act	
	Refer to curriculum topic: 1.2.4	
	Data at rest is static data that is stored in a database first and then analyze	
	interpreted. Data at rest follows the traditional analysis flow of store > an > notify > act. Once the data is analyzed, decision makers are notified and	-
	determine whether action is needed.	

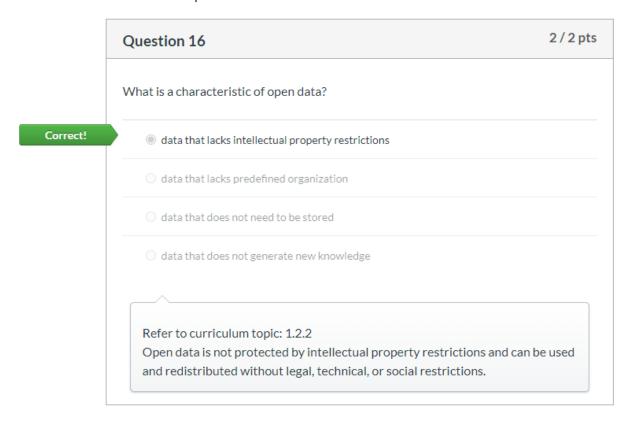
What is Hadoop?

	Question 14	0 / 2 pts
	What is Hadoop?	
You Answered	a method of preventing loops when analyzing Big Data	
	a groundbreaking method of moving large amounts of data through micro loops	
Correct Answer	a framework that allows distributed processing of data across clusters of comput	ters
	a method of sharing data across multiple companies using computing resources hou within each respective company	sed
	Refer to curriculum topic: 1.3.2 Data management and analysis today are characterized by the use of flat f databases, relational database management system (RDBMS), and the Had framework that allows distributed processing of data across clusters of computers using simple programming models.	

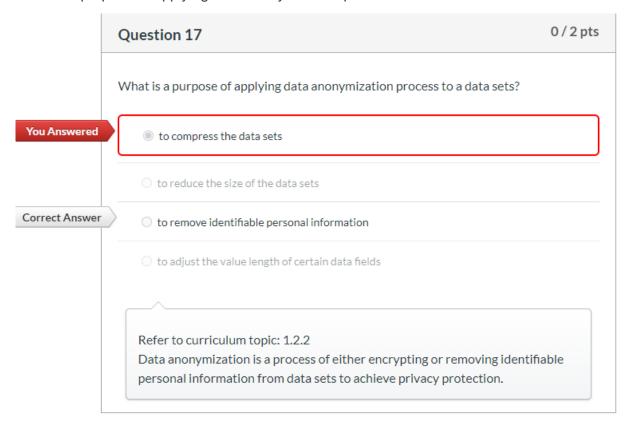
What is true of Big Data in comparison to traditional data?



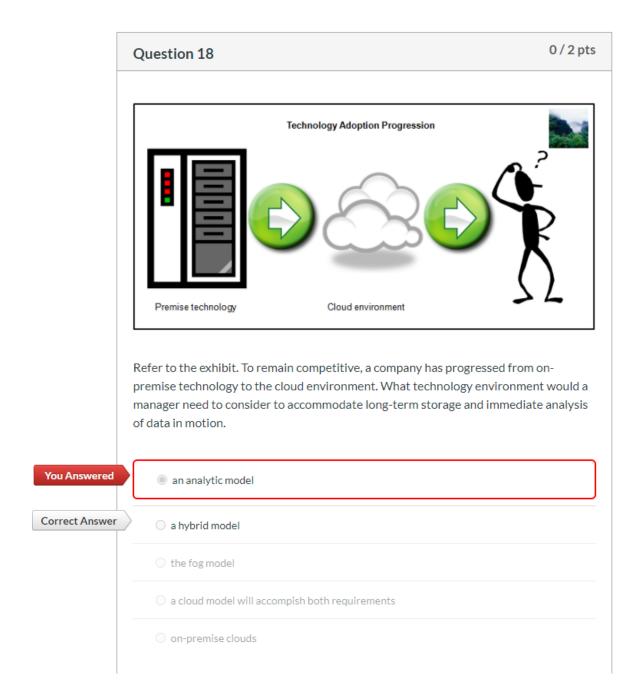
What is a characteristic of open data?



What is a purpose of applying data anonymization process to a data sets?



Refer to the exhibit. To remain competitive, a company has progressed from on-premise technology to the cloud environment. What technology environment would a manager need to consider to accommodate long-term storage and immediate analysis of data in motion.



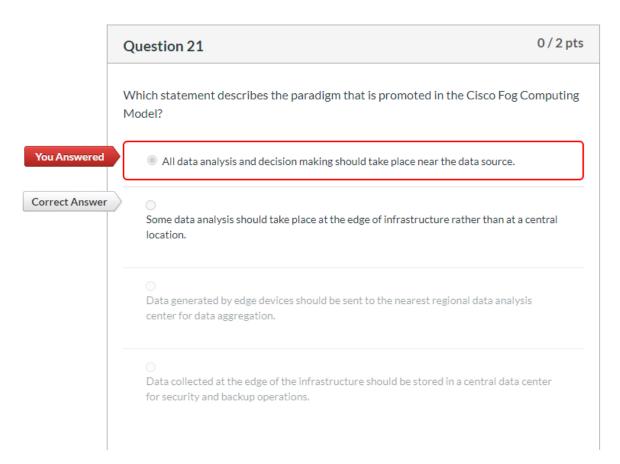
What are two key components in creating data analysis tools from scratch? (Choose two.)

	Question 19	l/2 pts
	What are two key components in creating data analysis tools from scratch? (Chotwo.)	oose
Correct!	☑ coding	
Correct Answer	□ modeling	
	□ data sets	
	performance	
	□ program length	

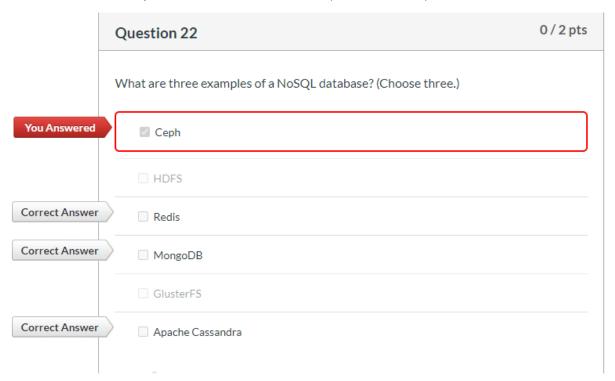
What is an example of data in motion?

	Question 20	0/2 pts
	What is an example of data in motion?	
You Answered	recording road traffic volumes and patterns for future highway planning	
Correct Answer	medical information being transmitted from an ambulance to emergency department staff as a critically ill patient is being transported to the hospital	nt
	ohourly weather information being collected in preparation for the next day weather forecast for a specific location	
	ocollecting sales and transaction records in preparation for a monthly sales report from sales consultants as they travel between customers	om
	Refer to curriculum topic: 1.1.1 Data in motion is dynamic data that requires real-time processing before to data becomes obsolete. It represents the continuous interactions between people, processes, data and things. In this example the real-time medical information enables the emergency staff to be appropriately prepared between the patient arrives at the hospital.	n

Which statement describes the paradigm that is promoted in the Cisco Fog Computing Model?



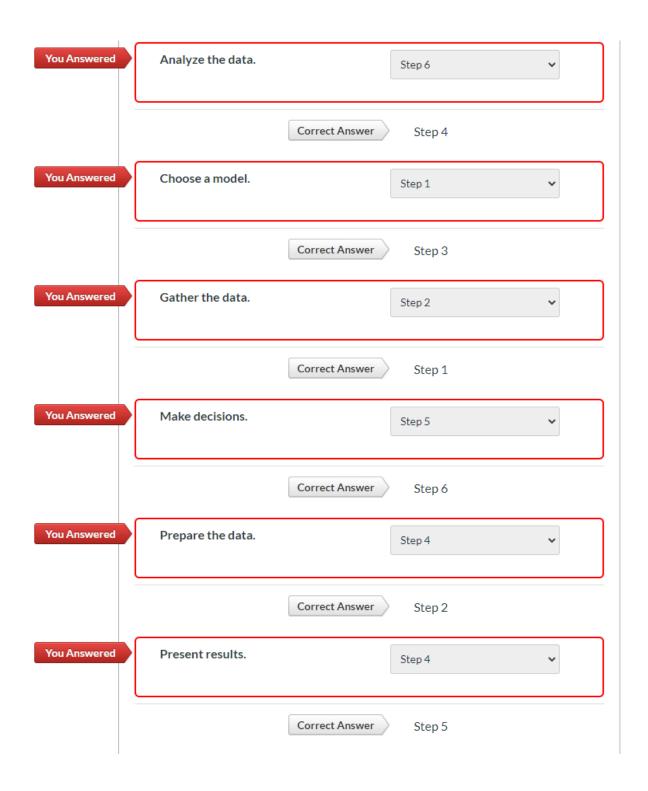
What are three examples of a NoSQL database? (Choose three.)



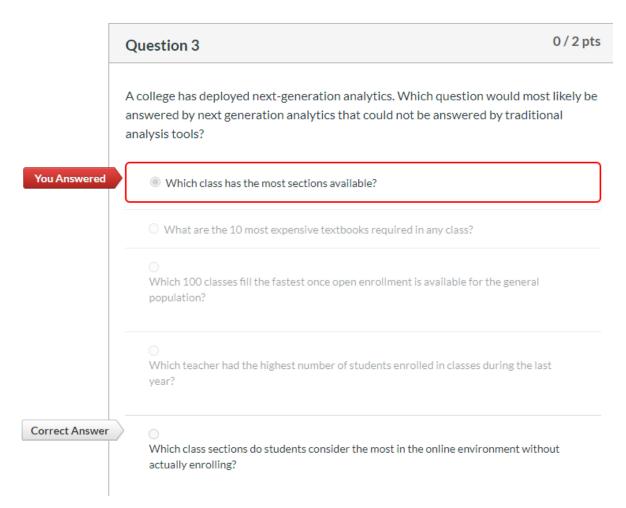
Which task is performed within the data analysis step of the Data Analysis Lifecycle?

	Question 1	2/2 pts
	Which task is performed within the data analysis step of the Data Analysis Lif	fecycle?
Correct!	testing the model on data to ensure reliability	
	incorporating the findings into corporate strategy	
	 selecting a tool for data analysis 	
	O locating and gathering data	

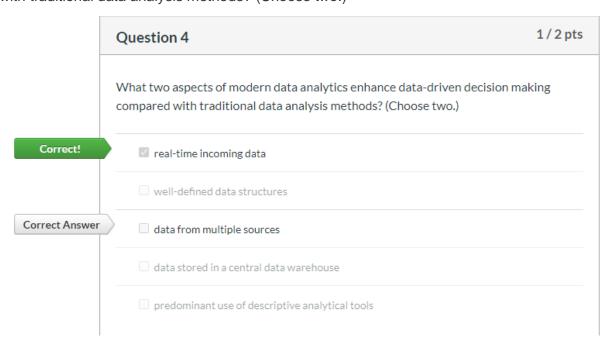
Place the six steps in the data analysis lifecyle in the correct order.



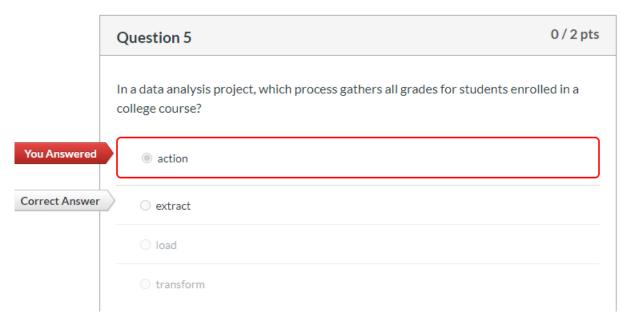
A college has deployed next-generation analytics. Which question would most likely be answered by next generation analytics that could not be answered by traditional analysis tools?



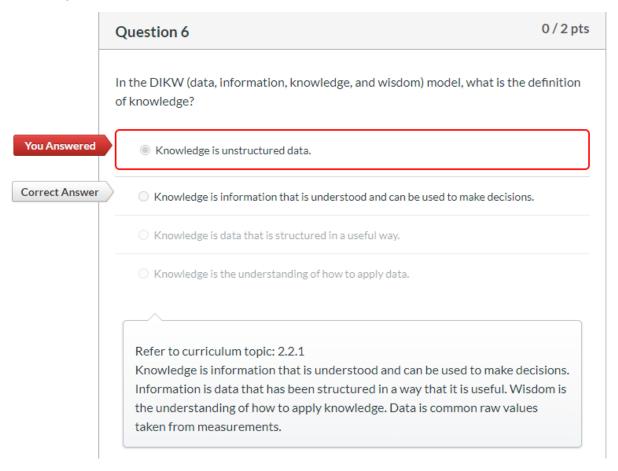
What two aspects of modern data analytics enhance data-driven decision making compared with traditional data analysis methods? (Choose two.)



In a data analysis project, which process gathers all grades for students enrolled in a college course?



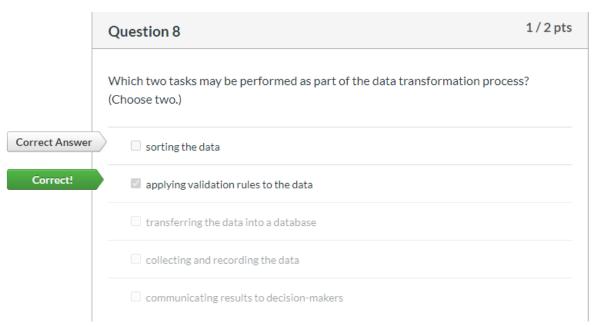
In the DIKW (data, information, knowledge, and wisdom) model, what is the definition of knowledge?



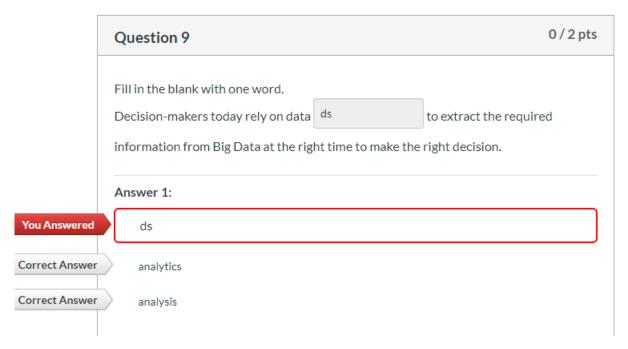
What is an example of data in the DIKW Pyramid model?

	Question 7	0 / 2 pts
	What is an example of data in the DIKW Pyramid model?	
	data structured in a format that can be analyzed	
You Answered	the application of knowledge	
	information that is understood and can be used immediately	
Correct Answer	facts gathered through observation	

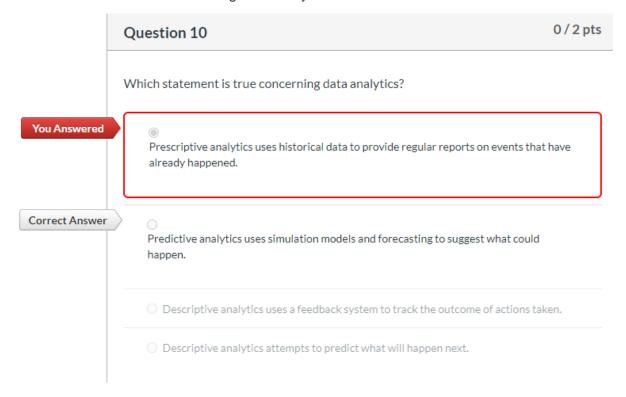
Which two tasks may be performed as part of the data transformation process? (Choose two.)



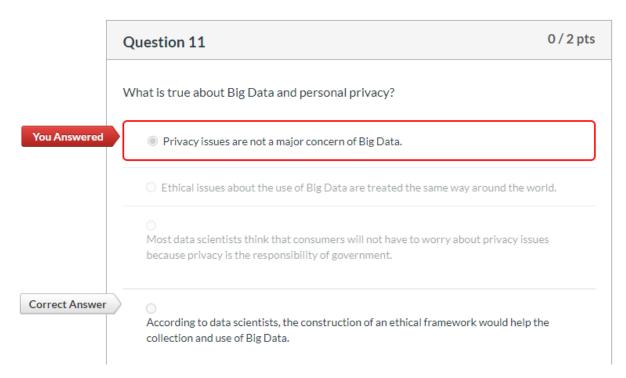
Fill in the blank with one word. Decision-makers today rely on data



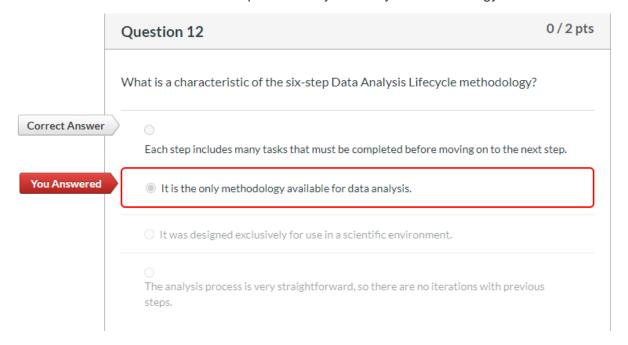
Which statement is true concerning data analytics?



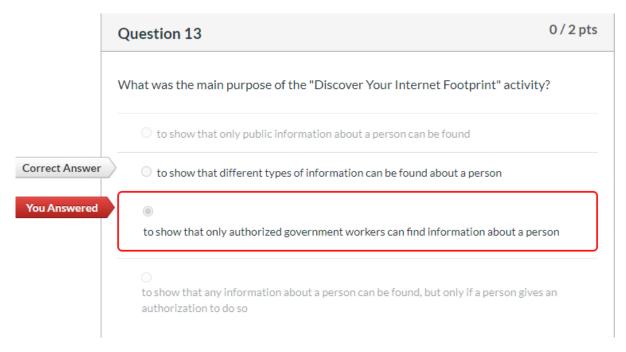
What is true about Big Data and personal privacy?



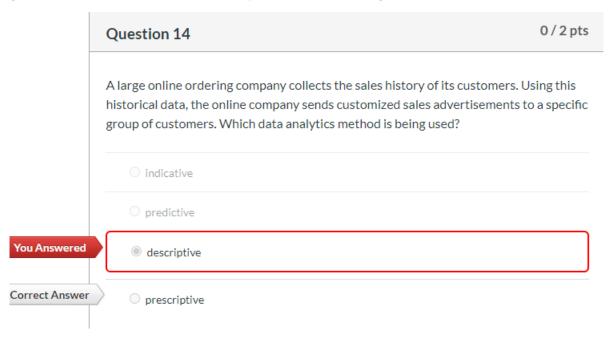
What is a characteristic of the six-step Data Analysis Lifecycle methodology?



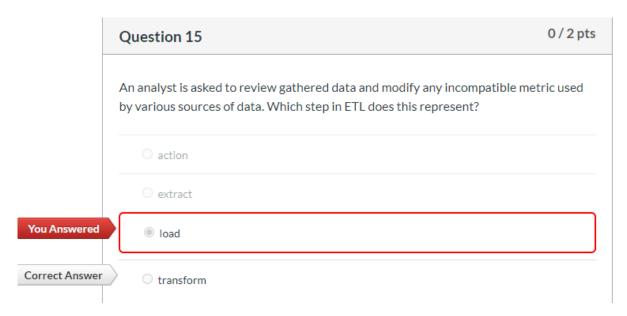
What was the main purpose of the "Discover Your Internet Footprint" activity?



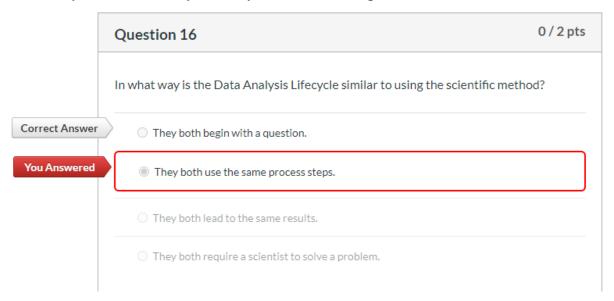
A large online ordering company collects the sales history of its customers. Using this historical data, the online company sends customized sales advertisements to a specific group of customers. Which data analytics method is being used?



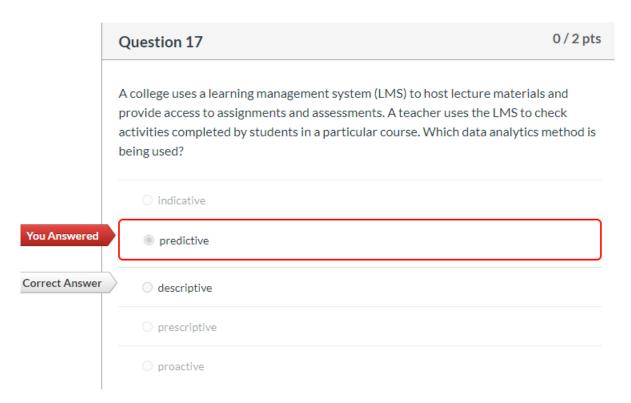
An analyst is asked to review gathered data and modify any incompatible metric used by various sources of data. Which step in ETL does this represent?



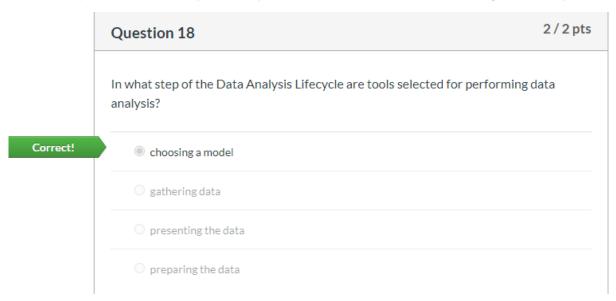
In what way is the Data Analysis Lifecycle similar to using the scientific method?



A college uses a learning management system (LMS) to host lecture materials and provide access to assignments and assessments. A teacher uses the LMS to check activities completed by students in a particular course. Which data analytics method is being used?

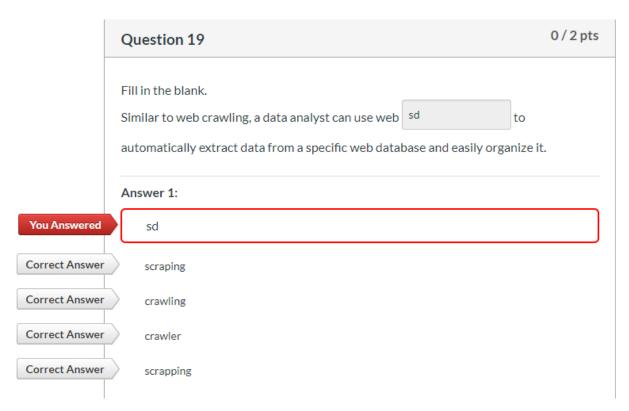


In what step of the Data Analysis Lifecycle are tools selected for performing data analysis?

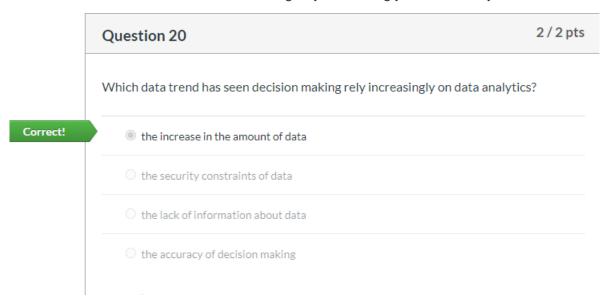


Fill in the blank.

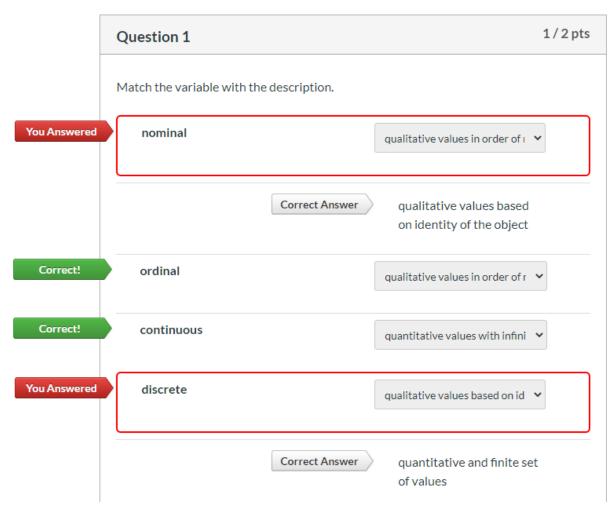
Similar to web crawling, a data analyst can use web



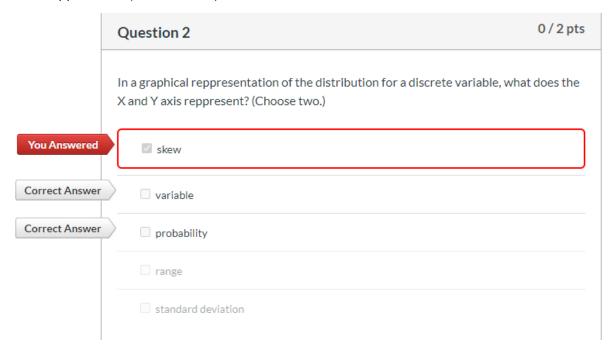
Which data trend has seen decision making rely increasingly on data analytics?



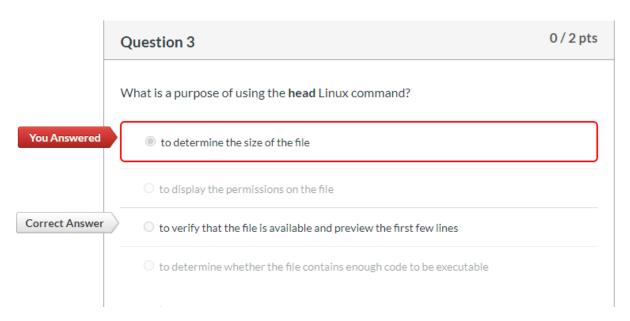
Match the variable with the description.



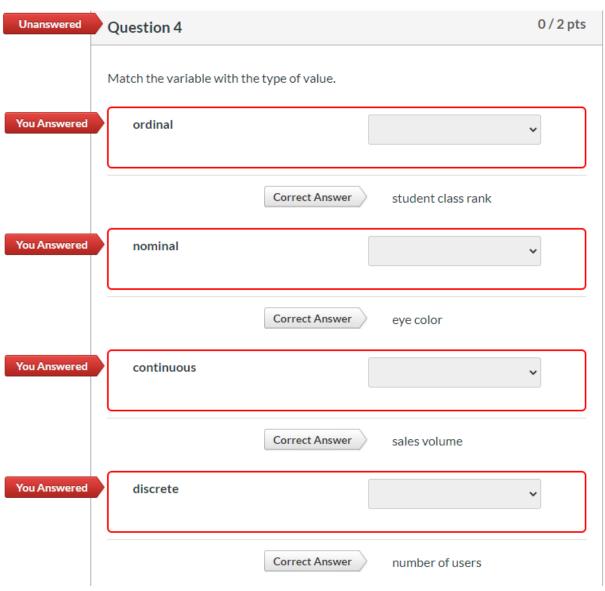
In a graphical reppresentation of the distribution for a discrete variable, what does the X and Y axis reppresent? (Choose two.)



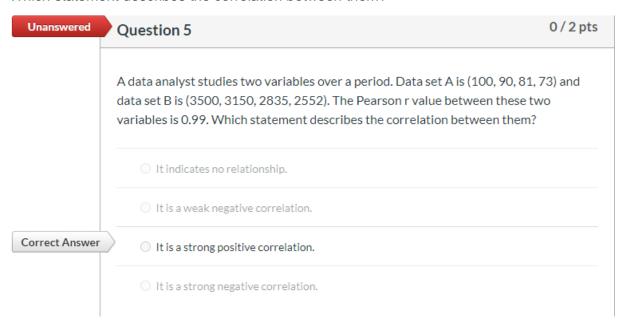
What is a purpose of using the **head** Linux command?



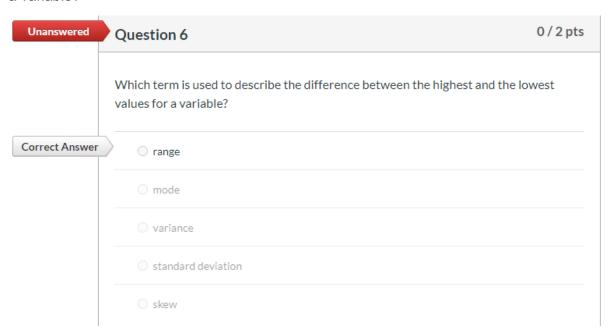
Match the variable with the type of value.



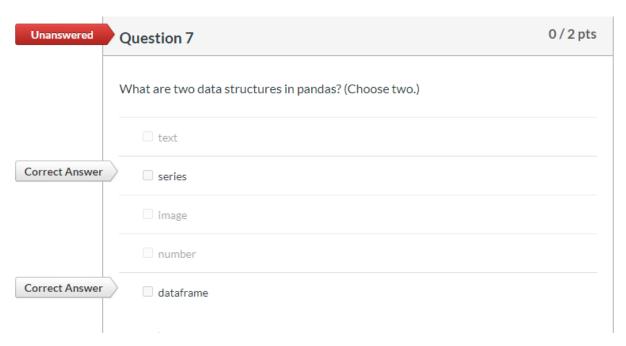
A data analyst studies two variables over a period. Data set A is (100, 90, 81, 73) and data set B is (3500, 3150, 2835, 2552). The Pearson r value between these two variables is 0.99. Which statement describes the correlation between them?



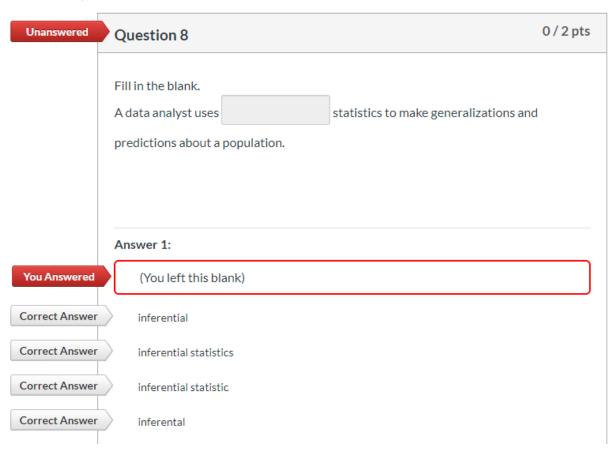
Which term is used to describe the difference between the highest and the lowest values for a variable?



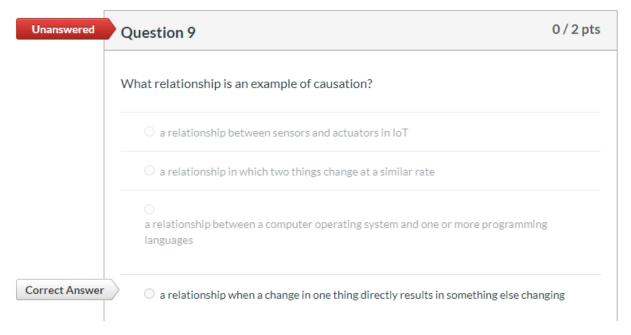
What are two data structures in pandas? (Choose two.)



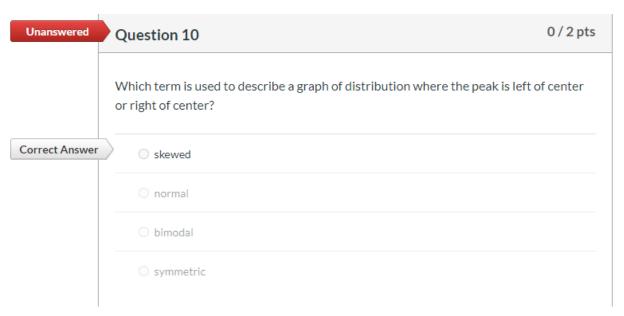
Fill in the blank. A data analyst uses



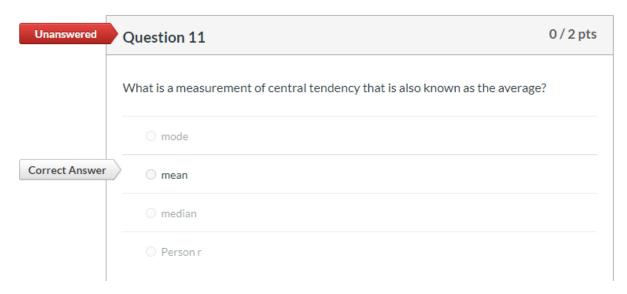
What relationship is an example of causation?



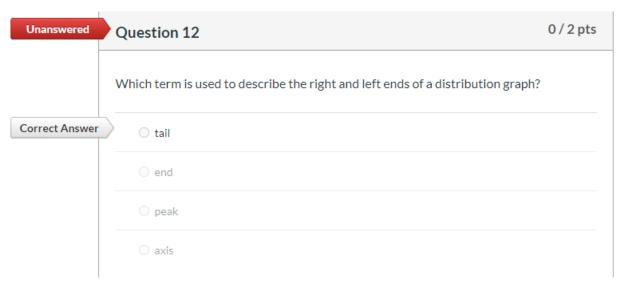
Which term is used to describe a graph of distribution where the peak is left of center or right of center?



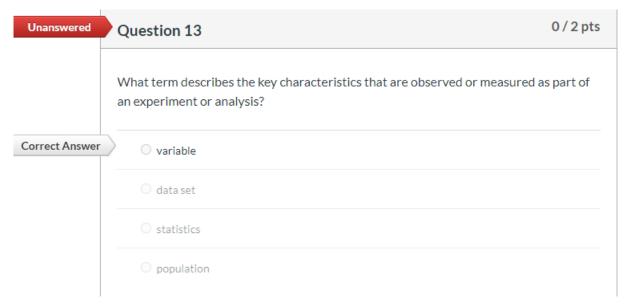
What is a measurement of central tendency that is also known as the average?



Which term is used to describe the right and left ends of a distribution graph?

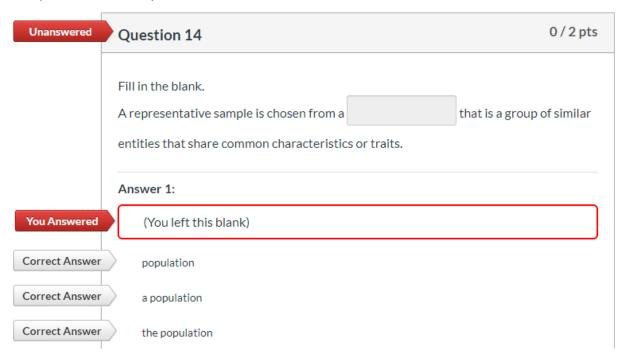


What term describes the key characteristics that are observed or measured as part of an experiment or analysis?

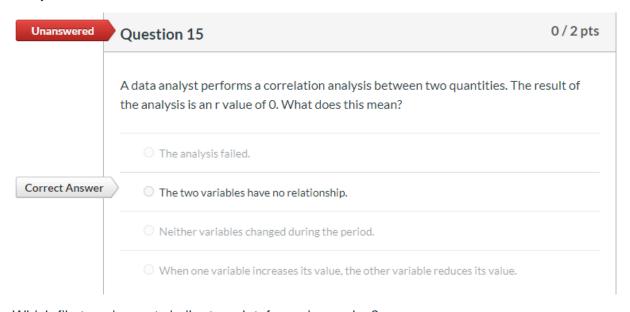


Fill in the blank.

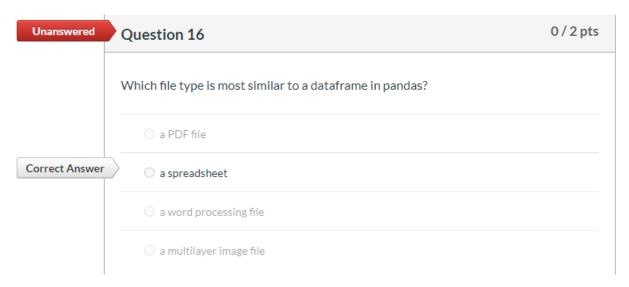
A representative sample is chosen from a



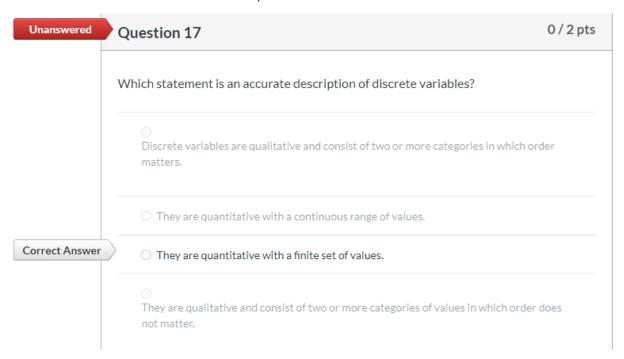
A data analyst performs a correlation analysis between two quantities. The result of the analysis is an r value of 0. What does this mean?



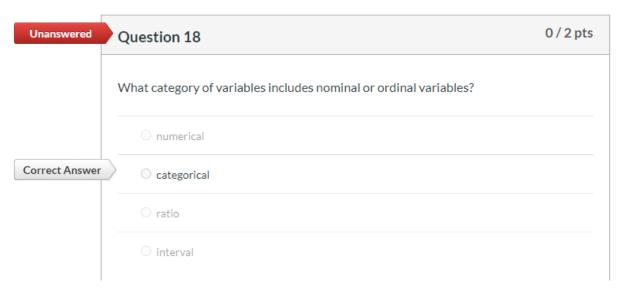
Which file type is most similar to a dataframe in pandas?



Which statement is an accurate description of discrete variables?

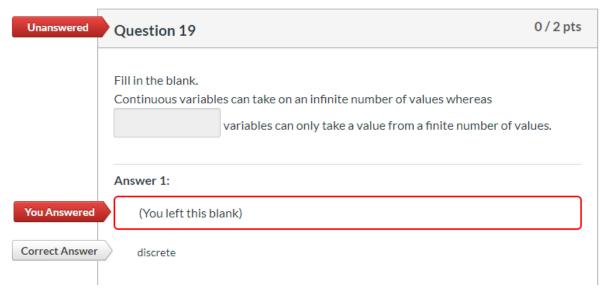


What category of variables includes nominal or ordinal variables?



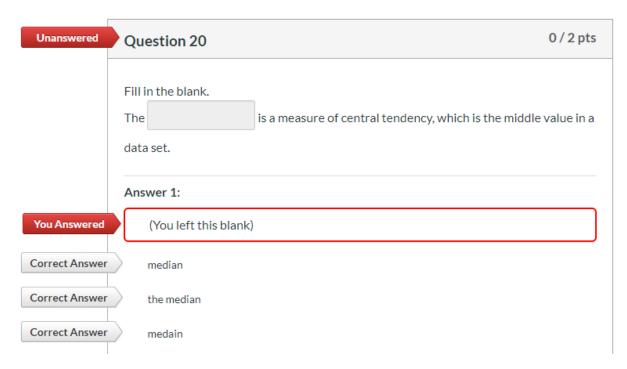
Fill in the blank.

Continuous variables can take on an infinite number of values whereas

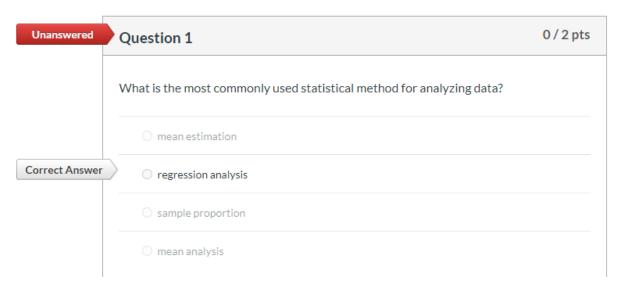


Fill in the blank.

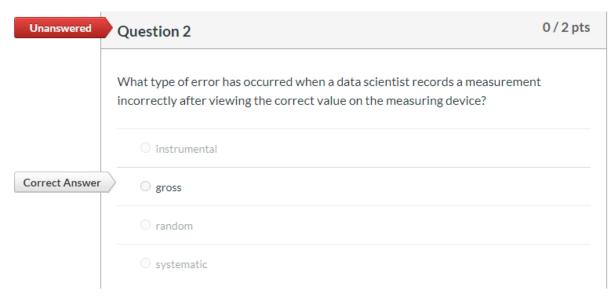
The is a measure of central tendency, which is the middle value in a data set.



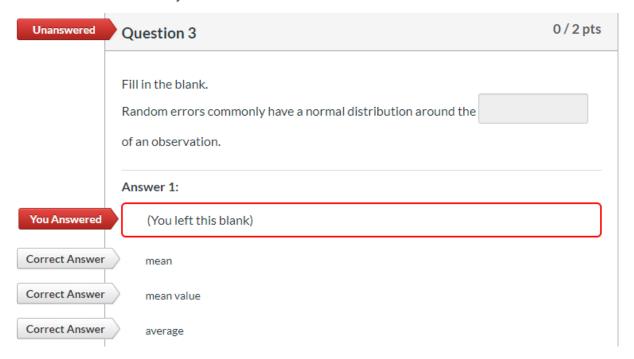
What is the most commonly used statistical method for analyzing data?



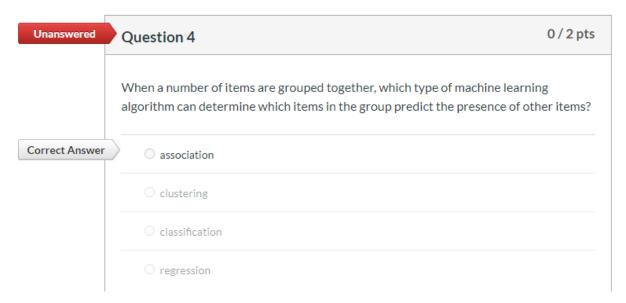
What type of error has occurred when a data scientist records a measurement incorrectly after viewing the correct value on the measuring device?



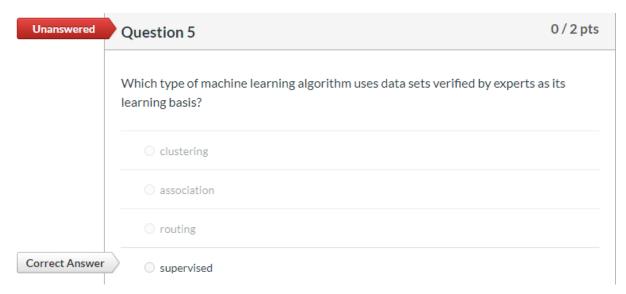
Fill in the blank. Random errors commonly have a normal distribution around the



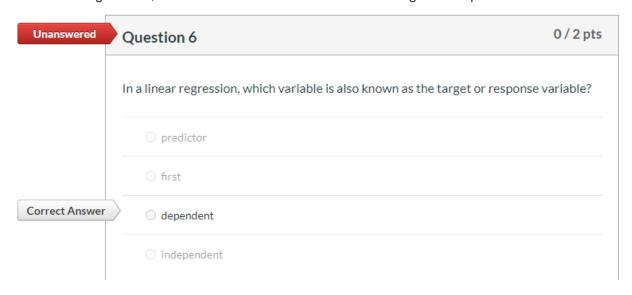
When a number of items are grouped together, which type of machine learning algorithm can determine which items in the group predict the presence of other items?



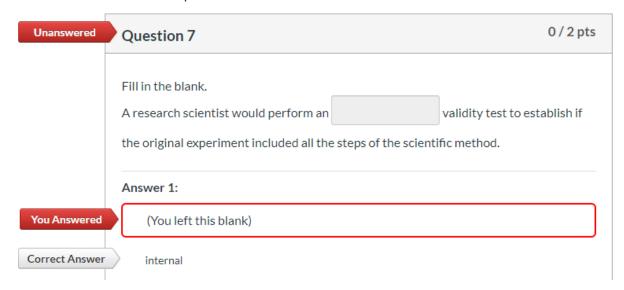
Which type of machine learning algorithm uses data sets verified by experts as its learning basis?



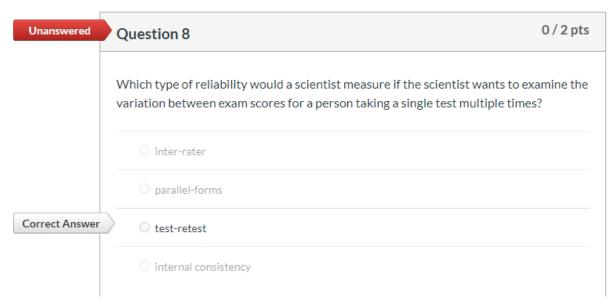
In a linear regression, which variable is also known as the target or response variable?



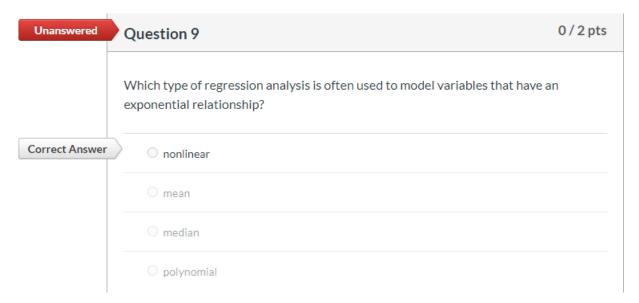
Fill in the blank. A research scientist would perform an



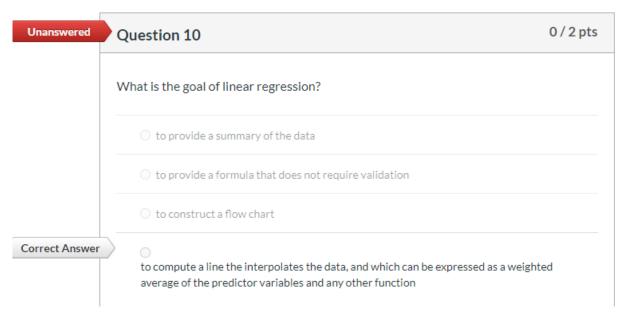
Which type of reliability would a scientist measure if the scientist wants to examine the variation between exam scores for a person taking a single test multiple times?



Which type of regression analysis is often used to model variables that have an exponential relationship?



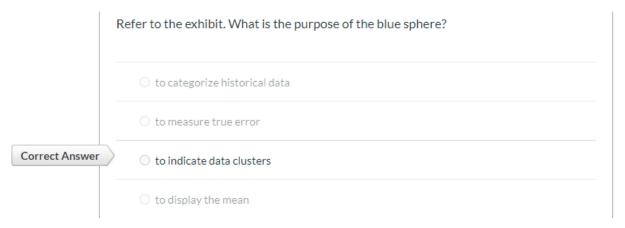
What is the goal of linear regression?



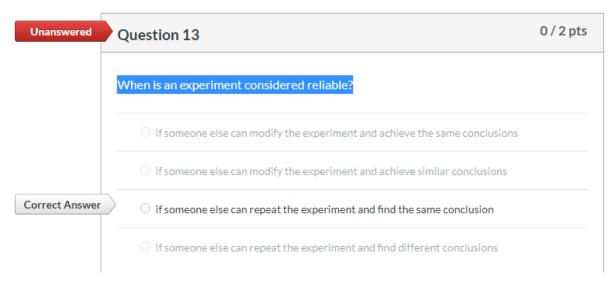
If the results of a study do not align with previous studies, what question should an evaluator ask?



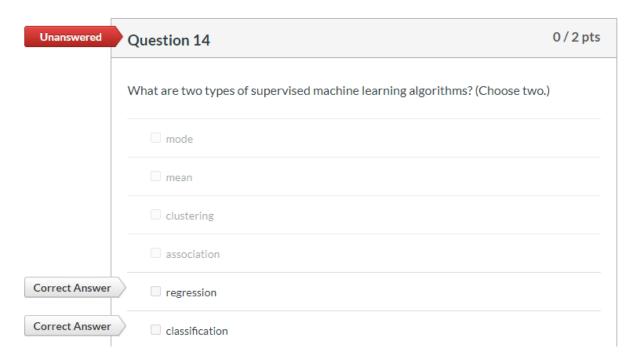
Refer to the exhibit. What is the purpose of the blue sphere?



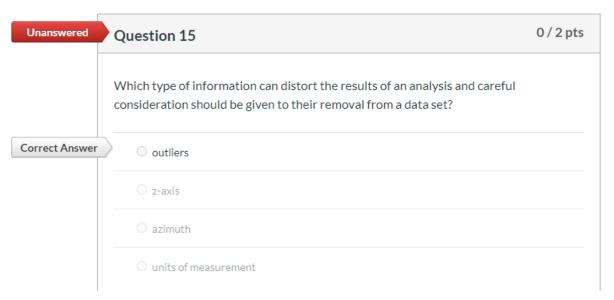
When is an experiment considered reliable?



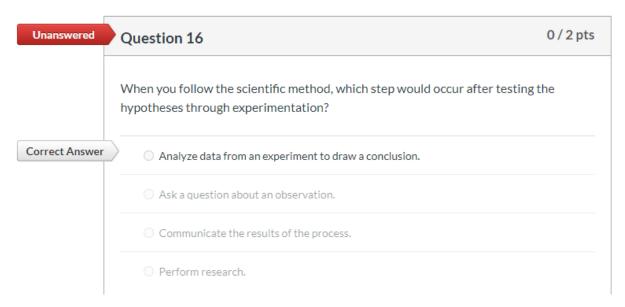
What are two types of supervised machine learning algorithms? (Choose two.)



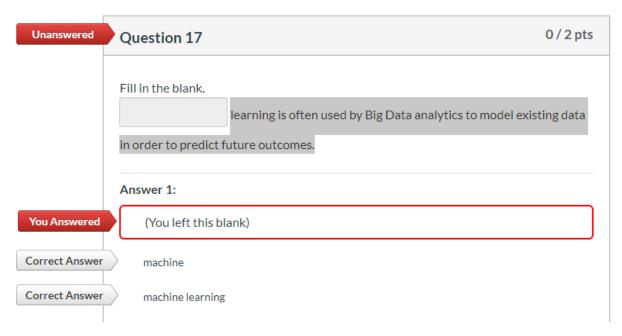
Which type of information can distort the results of an analysis and careful consideration should be given to their removal from a data set?



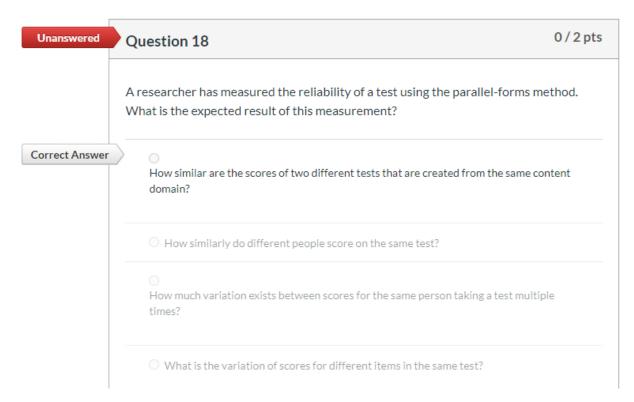
When you follow the scientific method, which step would occur after testing the hypotheses through experimentation?



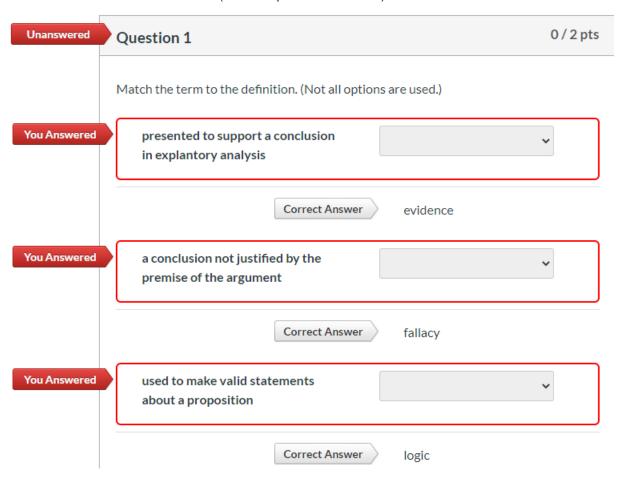
learning is often used by Big Data analytics to model existing data in order to predict future outcomes.



A researcher has measured the reliability of a test using the parallel-forms method. What is the expected result of this measurement?



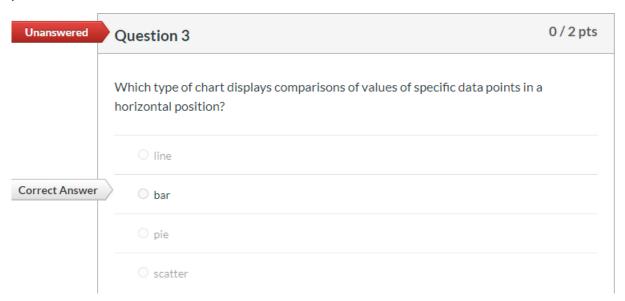
Match the term to the definition. (Not all options are used.)



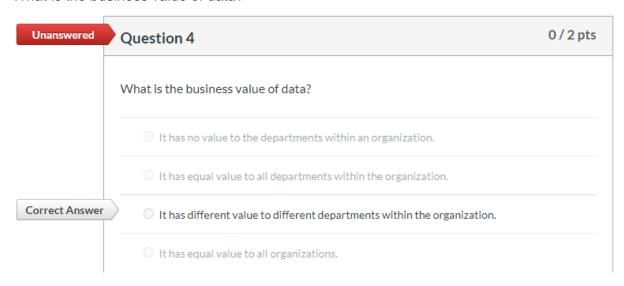
What is the purpose of Pyplot?

Unanswered	Question 2	0/2 pts
	What is the purpose of Pyplot?	
	to add plotting capabilities to Microsoft Word	
	to analyze variables separately as scatter plots and as pie charts	
Correct Answer	to create and customize a plot using a collection of style functions	
	O to analyze a scatter plot using a specific statistical algorithm that shows trends	

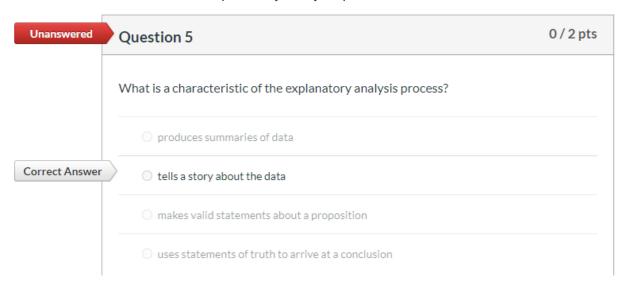
Which type of chart displays comparisons of values of specific data points in a horizontal position?



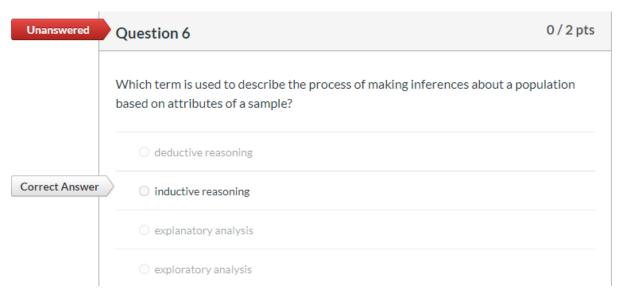
What is the business value of data?



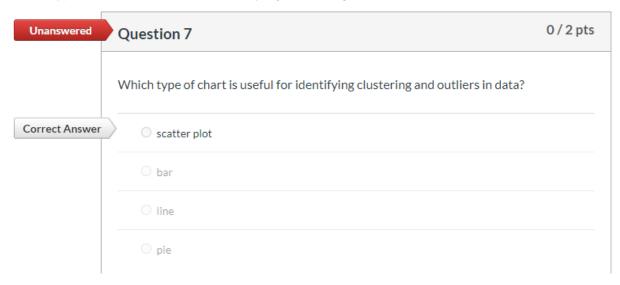
What is a characteristic of the explanatory analysis process?



Which term is used to describe the process of making inferences about a population based on attributes of a sample?

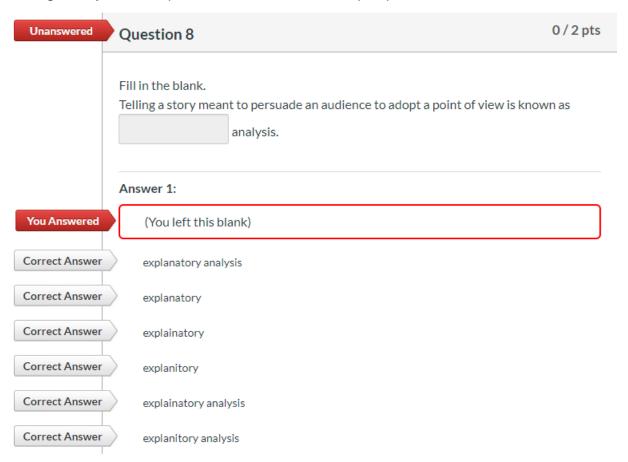


Which type of chart is useful for identifying clustering and outliers in data?

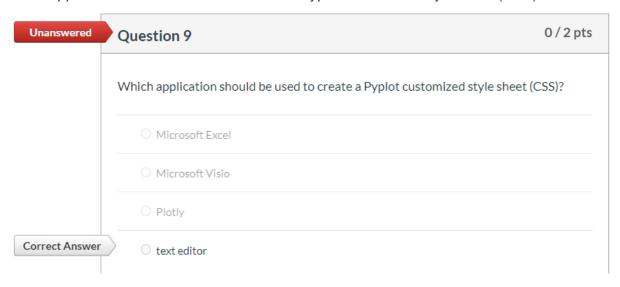


Fill in the blank.

Telling a story meant to persuade an audience to adopt a point of view is known as

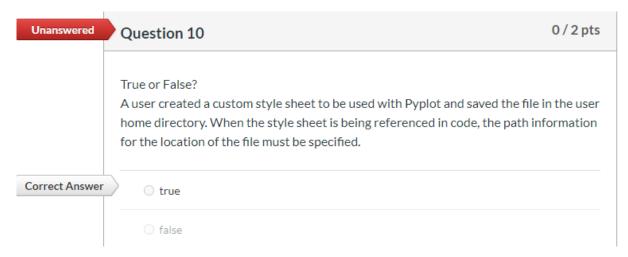


Which application should be used to create a Pyplot customized style sheet (CSS)?



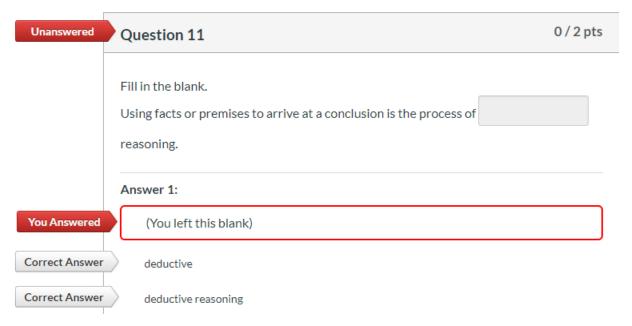
True or False?

A user created a custom style sheet to be used with Pyplot and saved the file in the user home directory. When the style sheet is being referenced in code, the path information for the location of the file must be specified.



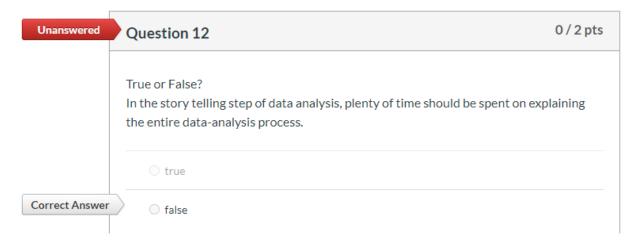
Fill in the blank.

Using facts or premises to arrive at a conclusion is the process of

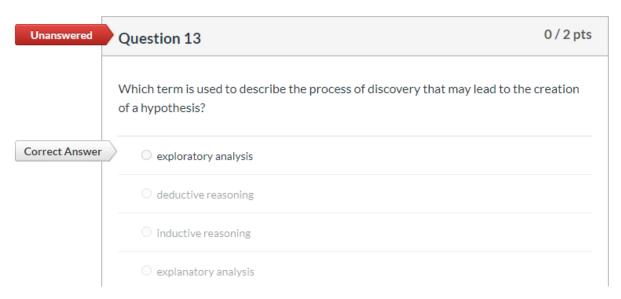


True or False?

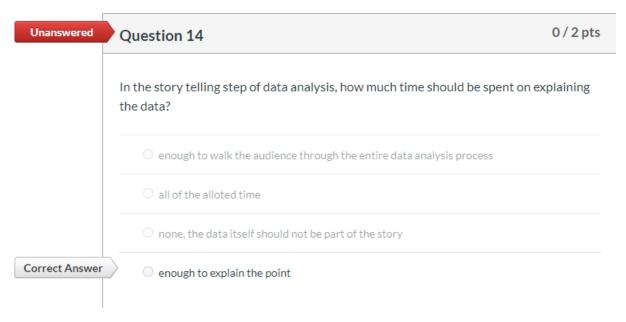
In the story telling step of data analysis, plenty of time should be spent on explaining the entire data-analysis process.



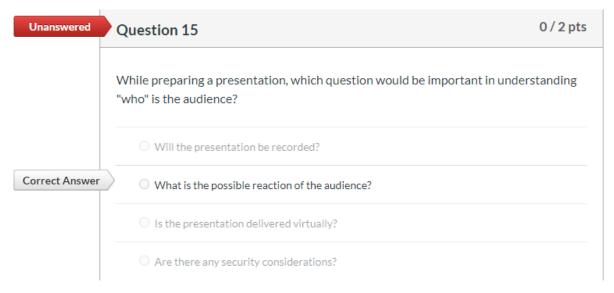
Which term is used to describe the process of discovery that may lead to the creation of a hypothesis?



In the story telling step of data analysis, how much time should be spent on explaining the data?

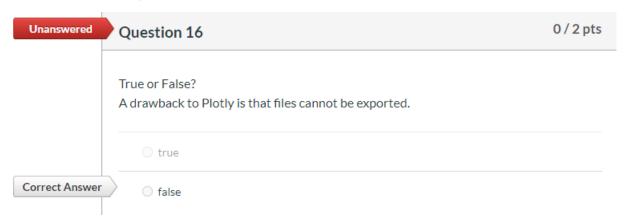


While preparing a presentation, which question would be important in understanding "who" is the audience?

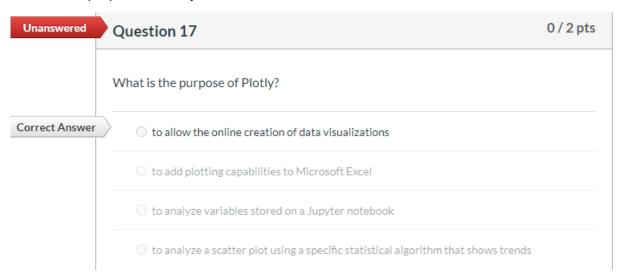


True or False?

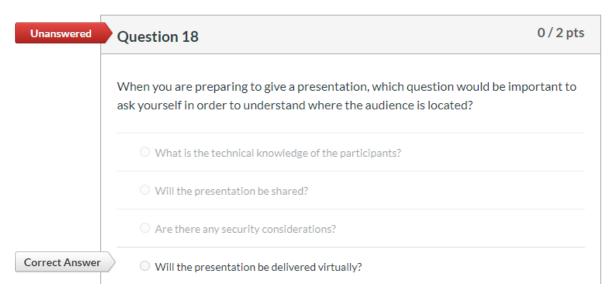
A drawback to Plotly is that files cannot be exported.



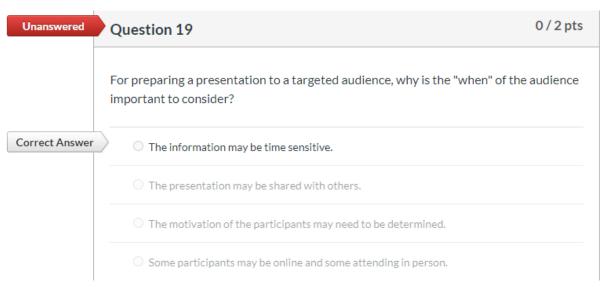
What is the purpose of Plotly?



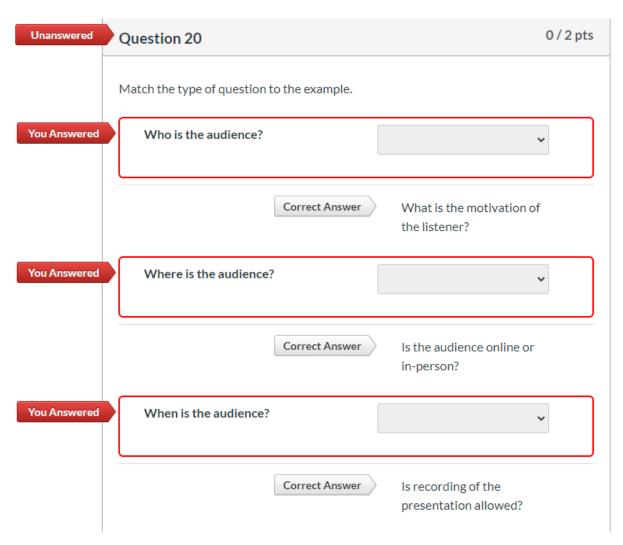
When you are preparing to give a presentation, which question would be important to ask yourself in order to understand where the audience is located?



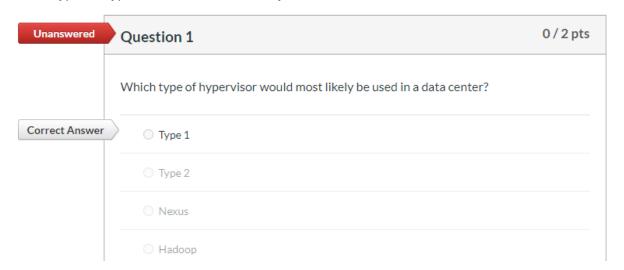
For preparing a presentation to a targeted audience, why is the "when" of the audience important to consider?



Match the type of question to the example.

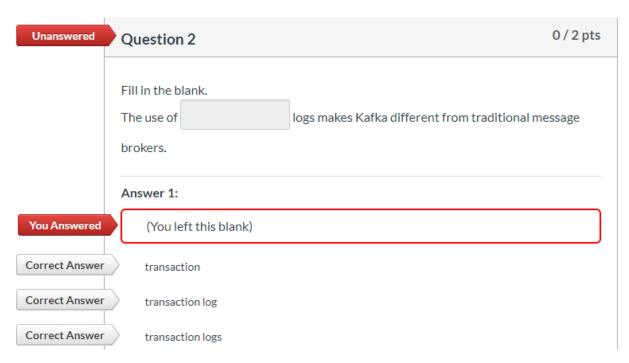


Which type of hypervisor would most likely be used in a data center?

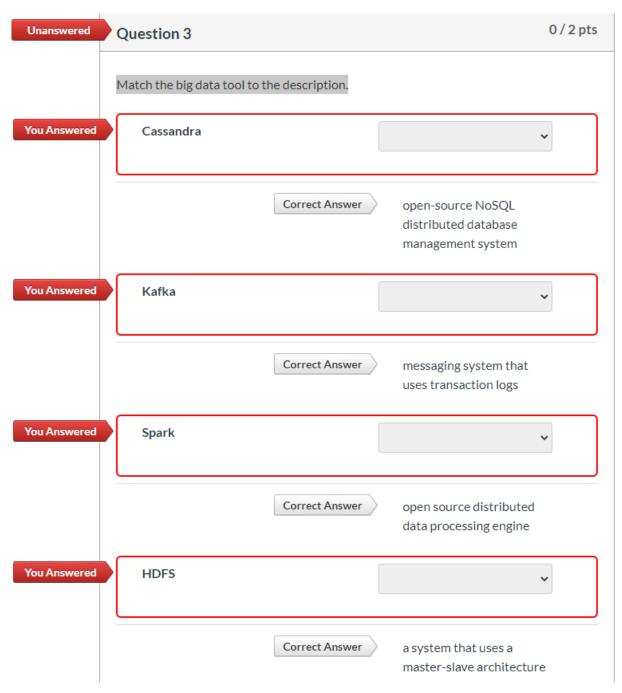


Fill in the blank.

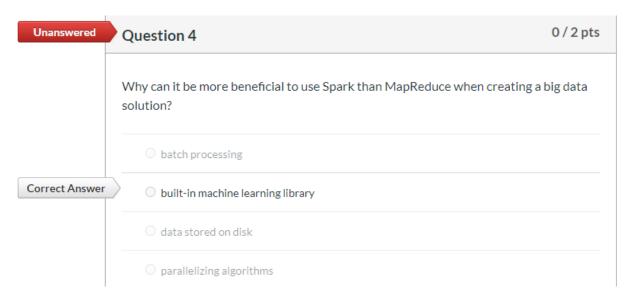
The use of logs makes Kafka different from traditional message brokers.



Match the big data tool to the description.

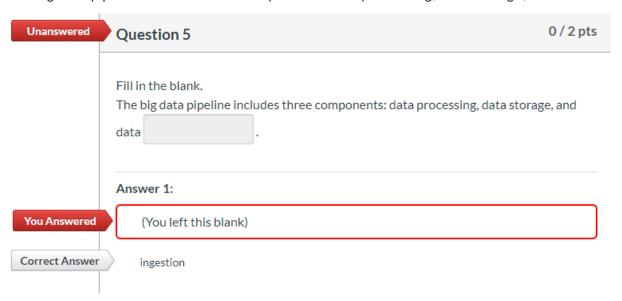


Why can it be more beneficial to use Spark than MapReduce when creating a big data solution?

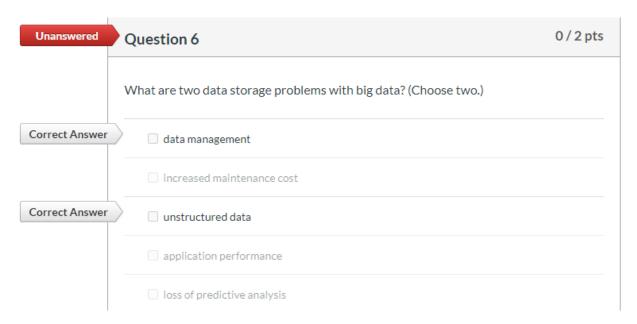


Fill in the blank.

The big data pipeline includes three components: data processing, data storage, and data



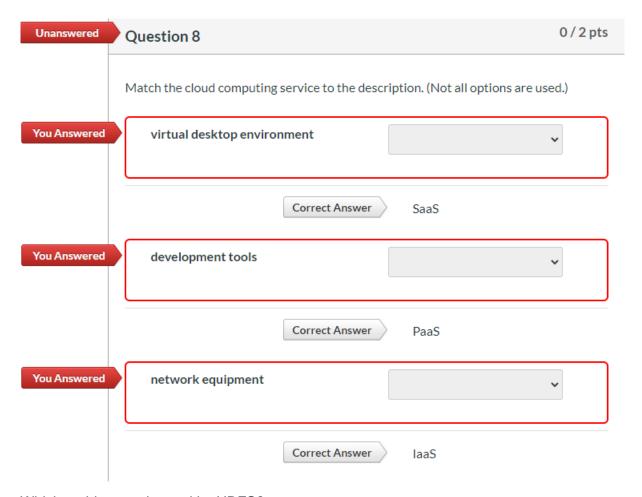
What are two data storage problems with big data? (Choose two.)



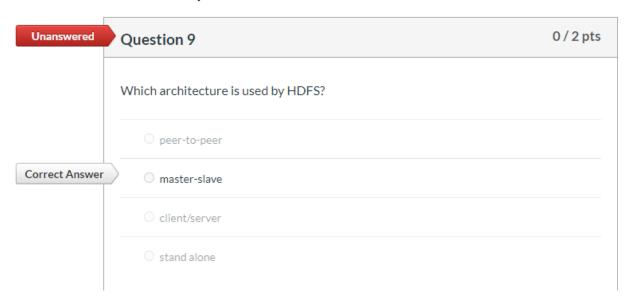
Which transferring methodology do traditional message brokers use?



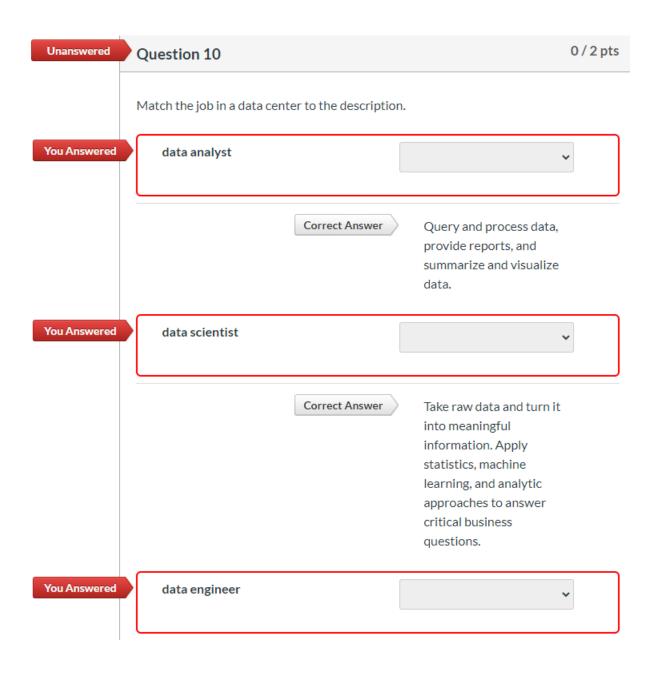
Match the cloud computing service to the description. (Not all options are used.)

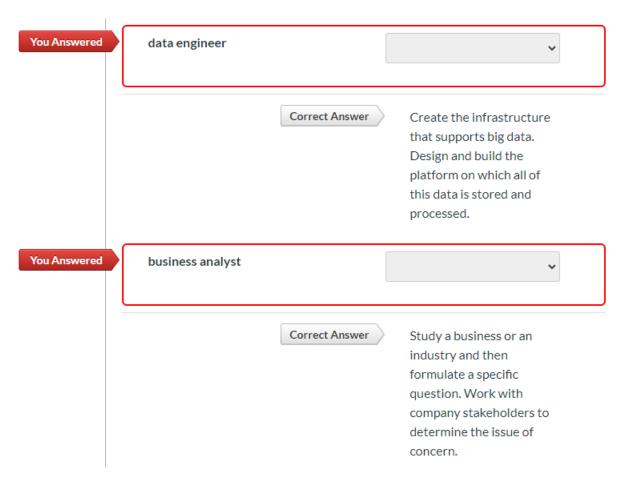


Which architecture is used by HDFS?

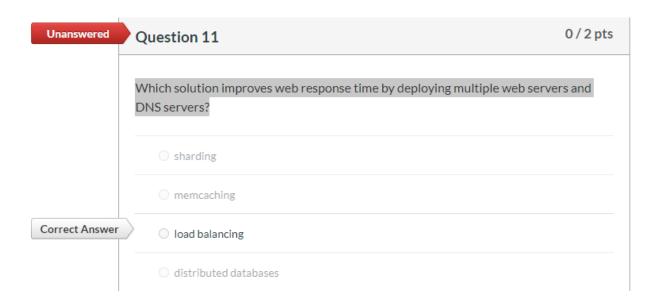


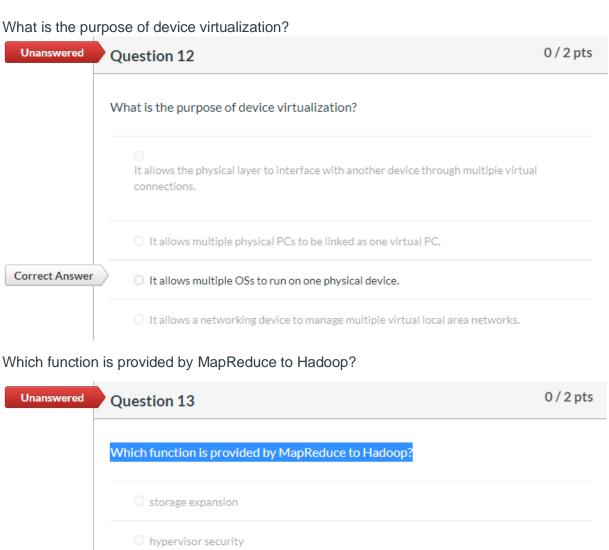
Match the job in a data center to the description.





Which solution improves web response time by deploying multiple web servers and DNS servers?



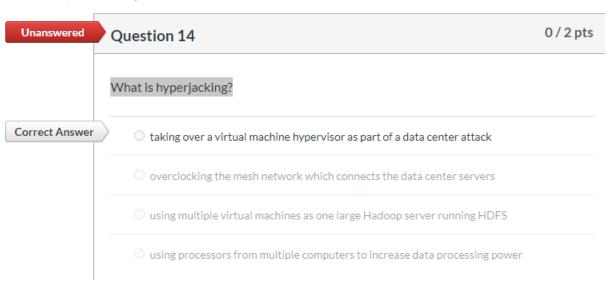


What is hyperjacking?

distributed processing

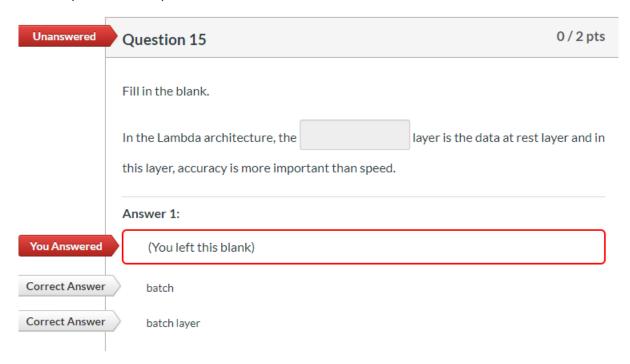
database management

Correct Answer

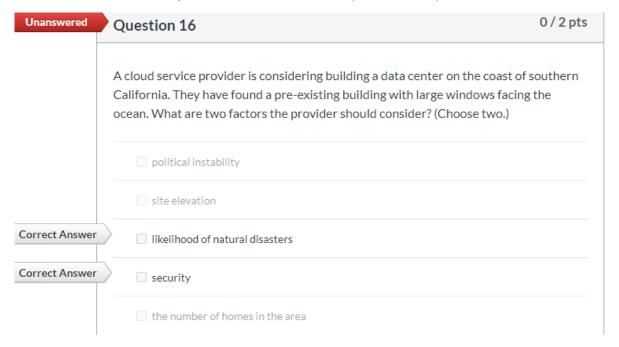


Fill in the blank.

In the Lambda architecture, the layer is the data at rest layer and in this layer, accuracy is more important than speed.



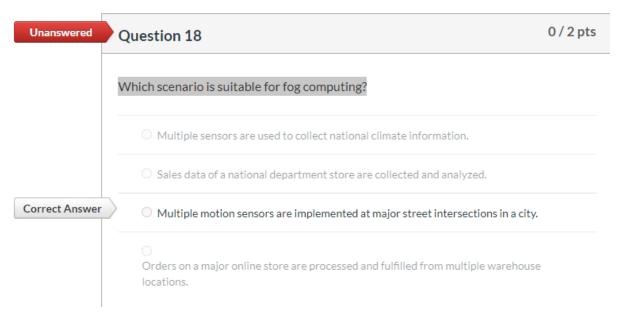
A cloud service provider is considering building a data center on the coast of southern California. They have found a pre-existing building with large windows facing the ocean. What are two factors the provider should consider? (Choose two.)



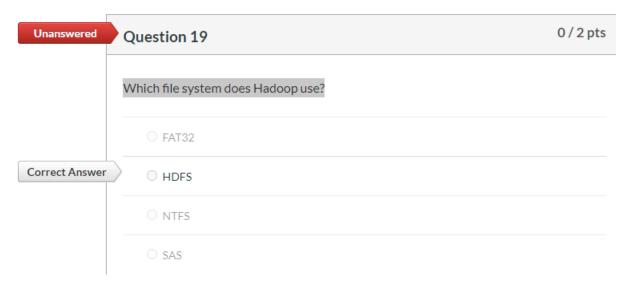
Which statement describes the term containers in virtualization technology?

Unanswered	Question 17	0 / 2 pts
Correct Answer	Which statement describes the term containers in virtualization technology? a group of VMs with identical OS and applications a subsection of a virtualization environment that contains one or more VMs	
		re

Which scenario is suitable for fog computing?



Which file system does Hadoop use?



What are two benefits to an organization if it rented data center services from either a colocation facility or a cloud service provider? (Choose two.)

