

ID: _____

Date: ____ / ____ / ____



Is it TRUE or is it FALSE?

Please put an X in the TRUE column, if the sentence is TRUE.

Please put an X in the FALSE column, if the sentence is FALSE.

	TRUE	FALSE
1. When scientists look at how changing the type of exercise increases heart beats, the type of exercise is the dependent variable.		
2. Data collection is when scientists gather and record information.		
3. Graphs are used by scientists to present the results of their experiments.		
4. Scientists smell different perfumes to find the one that smells the strongest. The scientists are not making observations.		
5. Some of your friends are older than you. Some of your friends are younger than you. Some of your friends are the same age as you. The age of your friends has variability.		
6. Scientists do experiments to test a hypothesis about things that are different or the same.		
7. An observational study is the same as an experiment.		
8. Classification is putting objects that are the same into different groups.		
9. Scientists measure variables to make comparisons.		
10. Scientists use a hypothesis to guess what will happen in an experiment.		
11. When scientists do an experiment, they don't need to know what variables to measure.		
12. In an experiment, groups are put together in any way the scientist wants.		
13. In an experiment, scientists change the independent variable.		
14. Constants are characteristics of things that are different.		
15. Scientists do not repeat experiments because it is a waste of their time.		
16. Scientists can use special tools to study variables that are invisible like our emotions.		
17. The mean is the average for a group.		
18. A spreadsheet is used to spread information around, like gossiping.		
19. When scientists use graphs to compare groups, the Y-axis (up and down line) shows the different groups.		
20. An operational definition can tell you exactly how to do or measure something.		