**Independent and Dependent (Responding) Variable Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per\_\_\_\_\_\_\_**

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| Scenario |  | Independent Variable | Responding Variable |
| 1.  One cow is fed a [growth hormone](http://www.biologycorner.com/physics/scimethod/scimethod_variables.html) and another cow is not.  After a year, both cows are weighed. | cow |  |  |
| 2.  Mosquito repellent is sprayed on one arm and the other arm is not sprayed.  The number of mosquito bites is counted after 2 hours. | http://www.biologycorner.com/resources/scimethod_variables_clip_image004.jpg |  |  |
| 3.  Bob studies for a test and Jackie does not study.  After the test, they compare their scores. | http://www.biologycorner.com/resources/scimethod_variables_clip_image006.jpg |  |  |
| 4.  Two cars are on a track and accelerate to 60 mph.  At a certain point, both cars slam on the brakes.  The distance it takes for each car to stop is then measured. | http://www.biologycorner.com/resources/scimethod_variables_clip_image008.jpg |  |  |
| 5.  A group of people take a [diet pill](http://www.biologycorner.com/physics/scimethod/scimethod_variables.html).  After 3 months, they measure the amount of weight they lost. | http://www.biologycorner.com/resources/scimethod_variables_clip_image010.jpg |  |  |
| 6.  Ants are placed in a tray that is shaped like a T, at the end of the T, the ants can either go to a darkened area or a light area.  Students count how many ants end up on the dark side and how many end up on the light side. | http://www.biologycorner.com/resources/scimethod_variables_clip_image012.jpg |  |  |
| 7.  One company states that it makes the best staplers.  To prove it, they use the stapler to staple a thousand papers and compare it to a competitor.  The competitor’s stapler jammed 3 x whereas their stapler only jammed once. | Blue Stapler Clip Art |  |  |
| 8.  A pediatrician designs [baby formula](http://www.biologycorner.com/physics/scimethod/scimethod_variables.html) to help babies gain weight.   To show his formula works, he compares the weights of babies that have been using the formula to the weights of babies not on the formula. | http://www.biologycorner.com/resources/scimethod_variables_clip_image016.jpg |  |  |
| 9.  Cockroaches are exposed to the chemical dioxin.  After 3 hours, 45/100 cockroaches are dead. | http://www.biologycorner.com/resources/scimethod_variables_clip_image020.jpg |  |  |
| 10.   New houses are spayed on the outside with an insulating paint.  After a year, researchers determine how much energy each house used. | house |  |  |