


## The Concept of Additivity

Sometimes multiple Variables (A and B) may work ADDITIVELY to affect an outcome. In such cases the variables are called additive, asscore the case on the right, where the presence of each variable is associated with the score increasing 50 points.

## The Concept of Interaction

Sometimes multiple Variables (A and B) may work interactively to affect an outcome. In such cases the variables are called interactive because the influence of one depends on the status of another variable

The graph sows
an interactive
effect of variables A and B. The influence of variable $A$ on the score depends on core depenus the presence o
variable $B$ a
vise versa.


## THUS

The concept of multiple causes involves even more complexities than you might have thought at first. Not only is it necessary to track down and measure the many individual factors that may influence the behavior in question, but it is also necessary to investigate how these factors interact.

## For Example

A farmer that in debt kills banker and himself...
WHY?
A inner city resident kills someone...
WHY?
What is the difference?


To Top it Off

All of the complex problems that psychologist analyze are multiply determined!!

