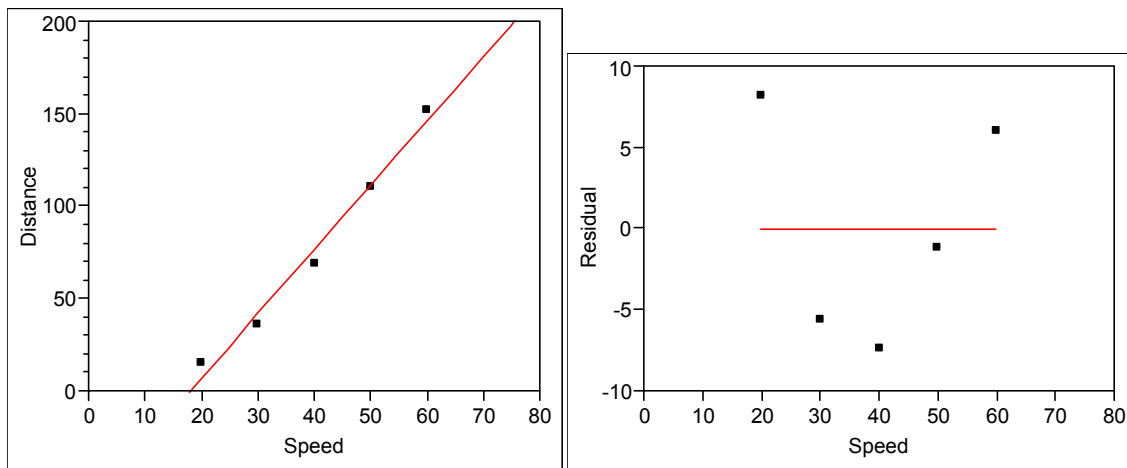


**Who?** Vehicle.  
**What?** Speed of vehicle (miles per hour), Stopping distance (feet).  
**When?** 2000.  
**Where?** A closed course testing facility  
**Why?** To see how the speed of the vehicle is related to the distance it takes to stop the vehicle.  
**How?** The vehicle accelerates to the chosen speed. When it passes a specific point, the driver slams on the brakes. The distance from the point to the place where the vehicle stops is the stopping distance.

Speed (mph)	Distance (feet)
20	15
30	36
40	69
50	110
60	152

### Bivariate Fit of Distance By Speed



### Linear Fit

$$\text{Distance} = -62.8 + 3.48 \text{ Speed}$$

### Summary of Fit

RSquare	0.984489
RSquare Adj	0.979319
Root Mean Square Error	7.974961
Mean of Response	76.4
Observations (or Sum Wgts)	5