

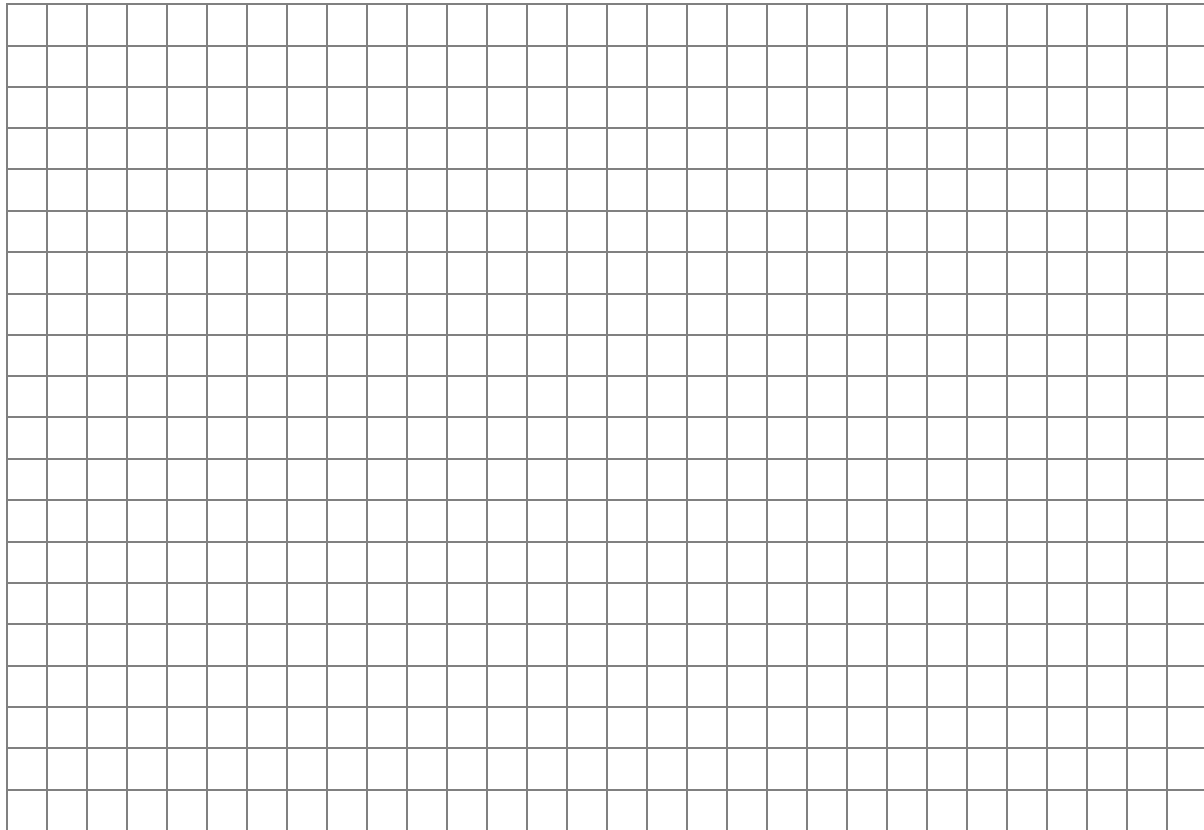
Name _____ Date _____ Per _____

Car Skid Mark and Speeds

When police investigate the scene of an automobile accident, they look for skid marks and use the length of those marks to estimate the speed at which the car was traveling. The results of experiments with a test car, giving skid mark length (in feet) and speed (in miles per hour), are shown here.

Car's Speed (mi/h)	Skid Mark Length (ft)
0	0
10	5
20	17
30	37
40	65
50	105
60	150
70	205
80	265

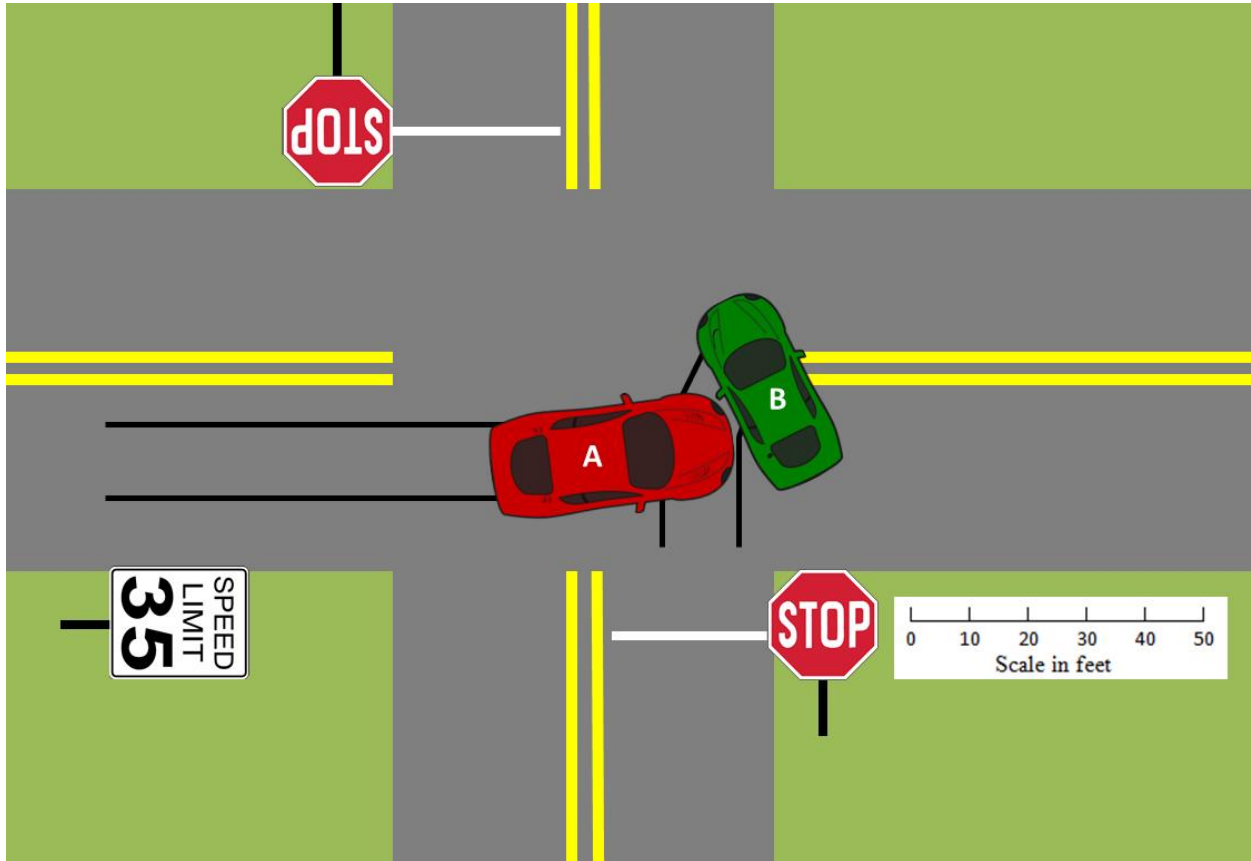
Make a scatter plot of the data below. Label both axes and connect the dots with a ruler.



What is the relationship between a car's speed and its skid mark length?

How far would a car skid if it were going 35 mi/h? How far for 65 mi/h?

Below is the scene of a car crash.



Using the scale, determine how fast each driver was going at the time of collision and determine who was at fault.

Extra Credit: Find the slope of the line you made on the scatter plot.