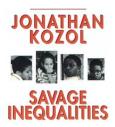
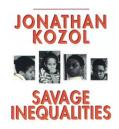
Name:	Hour:	Date:	

## Why Do Some Schools Do Better Than Others?

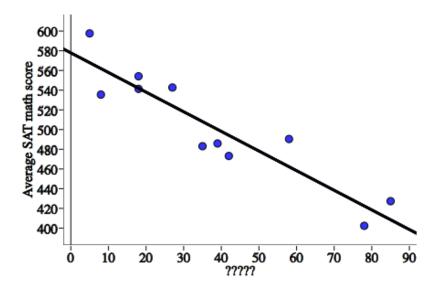






Academic performance of students varies widely from one school to another. What are some of the reasons? How can public education improve outcomes for all students?

A random sample of 11 high schools was selected from the state of Michigan and data was recorded for two variables. In Michigan, all high school Juniors are required to take the SAT.



1. The variable on the y-axis is "Average SAT math score". What variable is on the x-axis? Brainstorm several ideas in your groups.

- 2. Your teacher will reveal the variable on the x-axis. Write it in on the above scatterplot.
- 3. Describe the relationship between *x* and *y*.



Name:	Hour:	_ Date:
4. Can we conclude that being poor causes student	achievement to	decrease? Explain.
5. What might be some confounding variables that v	would help expla	ain this relationship?
6. The equation of the line of best fit is $\hat{y} = 577.9 - 1.9$ math score for a high school with 58% of students fit		_
7. East Kentwood High School (home of The Stats I with 58% free/reduced lunch and an average SAT n interpret the residual for East Kentwood High School	nath score of 49	0.4. Calculate and
8. We are working hard in public education to elimin currently exists between poverty and academic achidoing to eliminate this inequity? What else could the	ievement. Ŵhat	•

Education must enable one to sift and weigh evidence, to discern the true from the false, the real from the unreal, and the facts from the fiction. The function of education, therefore, is to teach one to think intensively and to think critically. Intelligence plus character--that is the goal of true education. — Martin Luther King Jr.