8. Out-of-class activity Divide into groups of three or four people. Investigate the relationship between two variables by collecting your own paired sample data and using the methods of this chapter to determine whether there is a significant linear correlation. Also identify the regression equation and describe a procedure for predicting values of one of the variables when given values of the other variable. Suggested topics:

• Is there a relationship between taste and cost of different brands of chocolate chip cookies (or colas)? Taste can be measured on some number scale, such as 1 to 10.

• Is there a relationship between salaries of professional baseball (or basketball, or football) players and their season achievements?

• Is there a relationship between the lengths of men's (or women's) feet and their heights?

• Is there a relationship between student grade point averages and the amount of television watched? If so, what is it?