

## Family Letter

### Dear Parent or Guardian:

Linear functions are frequently used to represent real-world situations. It is often helpful to display the information on a graph in order to analyze trends and make predictions. For example, if data represented on a scatter plot can be fitted with a line, then a correlation can be established to answer questions and make predictions.

In **Chapter 11, Algebra: Linear Functions**, your child will learn how to graph linear functions using the slope and y-intercept, graph linear inequalities, solve systems of linear equations by graphing, use scatter plots, and work with sequences. In the study of this chapter, your child will complete a variety of daily classroom assignments and activities and possibly produce a chapter project.

By signing this letter and returning it with your child, you agree to encourage your child by getting involved. Enclosed is an activity you can do with your child that also relates the math we will be learning in Chapter 11 to the real world. You may also wish to log on to the **Online Study Tools** for self-check quizzes, Parent and Student Study Guide pages, and other study help at [www.msmath3.net](http://www.msmath3.net). If you have any questions or concerns, feel free to contact me at school.

Sincerely,

Signature of Parent or Guardian \_\_\_\_\_ DATE \_\_\_\_\_

# Family Activity

## Scatter Plots

Ask 10 friends, neighbors, and family members their height in inches and their shoe size. Have a family member help you. Record the results in the table below. Use either all men's shoe sizes or all women's. Note that a women's shoe size is equivalent to one size smaller in the men's sizes. For example, a women's size 6 is a men's size 5.

Person	Height	Shoe Size

Plot each person's height and shoe size (height, shoe size) as a point on the coordinate grid below. Then describe any relationships you see from the graph.

