

## Family Letter

### Dear Parent or Guardian:

Knowing how to solve equations and inequalities is a valuable skill. Sometimes we use this skill without even realizing it. For example, we use inequalities to decide whether we have enough money to buy a particular item. Relating math skills to everyday events is just one way to help students appreciate what they are learning in our class.

In **Chapter 4, Algebra: Linear Equations and Functions**, your child will be learning how to write expressions and equations, to solve equations, to solve inequalities, and to graph and find the slope of a function. 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 that you can do with your child that also relates the math we will be learning in Chapter 4 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.msmath2.net](http://www.msmath2.net). If you have any questions or comments, feel free to contact me at school.

Sincerely,

Signature of Parent or Guardian \_\_\_\_\_ Date \_\_\_\_\_

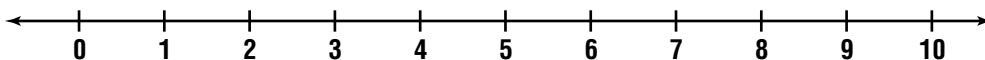
## Family Activity

### Inequalities Are Everywhere

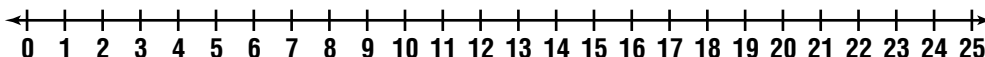
Work with a parent or family member to write an inequality for each phrase. Then graph each inequality by using a washer (to represent less than or greater than) or a button (to represent less than or equal to or greater than or equal to) and a piece of uncooked spaghetti (to indicate the direction of the inequality).

For example, if you were given the phrase *elevator capacity must not exceed 1,500 pounds*, you would write  $x \leq 1,500$ . You would then place a button on the graph at 1,500 and place the spaghetti to the left of the button.

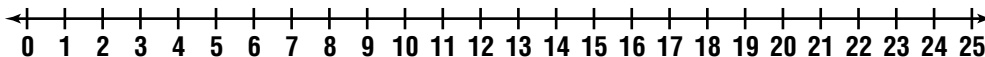
1. kids age 7 and under eat free



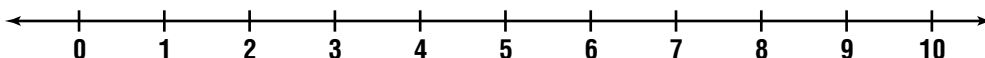
2. no one under the age of 21 allowed



3. must be 18 or older to win



4. must be taller than 4 feet to ride the roller coaster



5. Work with a parent or family member to think of another situation that can be described with an inequality. Write a phrase or sentence to describe the situation and write the inequality.

Situation:

Inequality:

