

## Family Letter

### Dear Parent or Guardian:

Learning about geometry is exciting because geometric shapes are everywhere! From the food we eat to the things we build, we are influenced by geometric shapes. Knowing how to find the areas and volumes of these shapes helps us make decisions such as the amount of material we need to construct an object or the amount of liquid we need to fill a container. These types of decisions are made in almost every industry.

In **Chapter 7, Geometry: Measuring Area and Volume**, your child will learn how to calculate areas of polygons and circles and find surface areas and volumes of prisms, cylinders, pyramids, and cones. 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 7 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 comments, feel free to contact me at school.

Sincerely,

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

## Family Activity

### Pick a Pizza

The area of a circle can be found by using the formula  $A = \pi r^2$ , where  $A$  is the area and  $r$  is the radius. Divide the cost by the area to calculate the cost per square inch.

Work with a family member to answer the following questions. Visit or call a local restaurant or grocery store that sells three different sizes of pizza. Use a calculator to find the area of each size.

1. Which size pizza do you think is the best buy? Why?
2. What is the radius of the small pizza in inches? Use this information to calculate the area of the circle.
3. What is the cost of the small pizza? Calculate the cost per square inch.
4. What is the radius of the medium pizza in inches? Use this information to calculate the area of the circle.
5. What is the cost of the medium pizza? Calculate the cost per square inch.
6. What is the radius of the large pizza in inches? Use this information to calculate the area of the circle.
7. What is the cost of the large pizza? Calculate the cost per square inch.
8. Which size pizza is actually the best buy? Why?