

Family Letter

Dear Parent or Guardian:

We can use probability to help us determine how likely something is to occur. For example, we know that when we toss a coin, the probability that it will land faceup is $\frac{1}{2}$. Knowing how to calculate probability and analyze likely outcomes will help us make more informed decisions.

In **Chapter 11, Probability**, your child will learn how to find and interpret the probability of an event, to predict actions of a larger group using a sample, and to find outcomes using lists, tree diagrams, and combinations. 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.msmath1.net. If you have any questions or comments, feel free to contact me at school.

Sincerely,

Signature of Parent or Guardian _____ Date _____

Family Activity

What's Your Preference?

Work with a family member to answer the following questions.

1. Determine the number of parents, siblings, grandparents, aunts, uncles, and close friends you have. Record the number below.
2. Write the name of each family member or friend on a separate piece of paper. Place all of the papers in a hat. Without looking, select five pieces of paper. Record the names of those family members or friends selected in the space below.
3. Ask those five family members or friends what color they prefer. Record the results in the space below.
4. What fraction of your family members or friends selected in Exercise 2 prefers red? blue? yellow? green?
5. Based on your sample, predict how many of your family members and friends listed in Exercise 1 prefer blue.
6. Based on your sample, predict how many of your family members and friends listed in Exercise 1 prefer yellow.
7. Based on your sample, predict how many of your family members and friends listed in Exercise 1 prefer red.