**Teacher Notes**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    Date \_\_\_\_\_\_\_\_\_\_\_\_\_    Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Discover Activity**

**What’s the Chance?**

Class Time:   15 minutes

**Difficulty:** L1 (Basic to Average)

Skills Focus:   Predicting

**Materials**

coin

**Procedure**

1. Suppose you were to toss a coin 20 times. Predict how many times the coin would land with heads up and how many times it would land with tails up.
2. Now test your prediction by tossing a coin 20 times. Record the number of times the coin lands with heads up and the number of times it lands with tails up.
3. Combine the data from the entire class. Record the total number of tosses, the number of heads, and the number of tails.

**Think It Over**

**Predicting**How did your results in Step 2 compare to your prediction? How can you account for any differences between your results and the class results?

**Expected Outcome**

The outcome of the coin tosses will vary. The more data, the closer the outcome will be to the expected ratio of one “heads” to one “tails.”

**Think It Over**

For most students, their results were slightly different from their predictions. The combined class data should be closer to the expected ratio of one “heads” to one “tails.” Students might infer that the difference is due to chance or that the more coin tosses they make, the closer they will come to the predicted outcome.