## Understanding Random Sampling - Step-by-Step Lesson
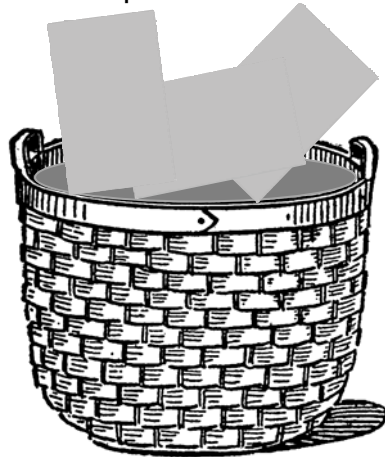
**Lesson 1 random sampling Problem:**

1. George put some cards into a basket. Then, he drew 3 cards out of the basket. Is this a random sample of the cards in the basket? Why or why not?

2. Jacob wanted to know what the most popular sneaker brand was of his classmates.  His class had 30 students.  To save time, he asked 10 boys the brand of sneakers that they were wearing. Of the students surveyed; Nike was the most popular sneaker brand.

Explain 2 ways Jacob's survey could have been more representative of his class's favorite sneaker brand.

 **Explanation:**

1. In a random sample, every person or item has an equal chance of being chosen. Since every card had an equal chance being picked, in this case, it is a random sample.

2. There are a number of ways to do this.  The most common answers are:

a) Survey girls as well.   b)Survey more students.

c) Ask students all of the sneaker brands that they own.