Activity 6: The Candy Family

1. If a family decides to have 5 children, how many boys and how many girls will they have?

2. We will use a simulation to discover the distribution of boys and girls.

    a. Select 5 pieces of candy. Place them in a cup. Shake the cup and roll the candy on the table. Mark Facing Up is a girl, Mark Facing Down is a boy.

    b. Write the number of girls on a sticky note.

    c. Repeat steps a. and b. several times.

    d. Form a histogram using the sticky notes.

3. Based on your simulation, what is the most likely distribution of boys and girls? Least likely distribution?

4. Can we calculate the probability of each family distribution mathematically?