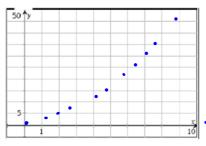
The Exponential Growth of Skittles

Start with one skittle. Place it in a cup, shake it, and then empty it on the desk. If the letter S is showing, place it back in the cup. If there is no S, add another candy and place both in the cup. Empty the cup again. For every candy not displaying a S, add another one and place it in the cup. Repeat for up to 10 trials or until you run out of candy. Record the data in the table below.

| Trial | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|---|----|
| Candies | 1 | | | | | | | | | | |

Sketch a graph of the data collected in your growth experiment.



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The Exponential Decay of Skittles

Start with all of your candies. Count them and record this number as trial 0. Place them in the cup. Empty them out. If the S is showing, place them back in the cup. If there is no S showing, place them to the side. You may eat these candies. Empty the remaining candies and repeat the above step until you have less than 5 skittles but greater than 0 skittles.

| Trial | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|---|----|
| Candies | | | | | | | | | | | |

Sketch a graph of the data collected in your decay experiment.

