PART 4: BALLOON DARTS (THEORETICAL VS. EXPERIMENTAL)
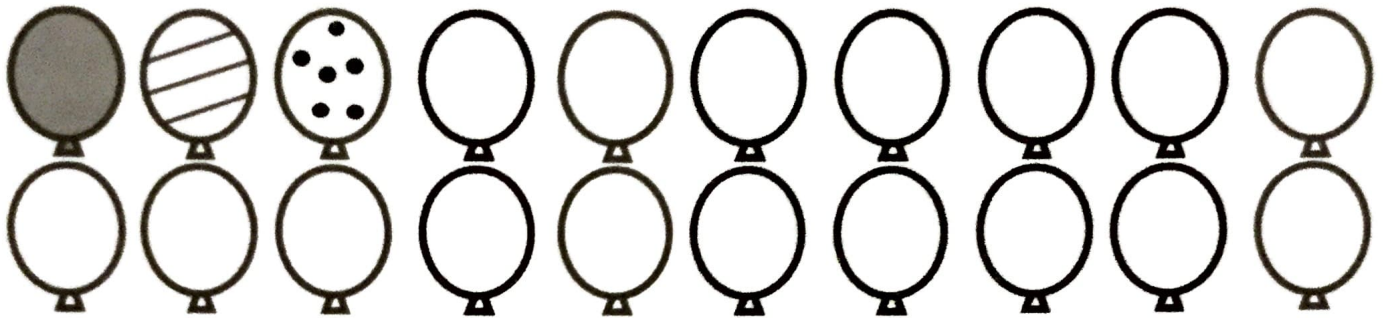
You have decided to place some carnival games throughout the park to increase revenue. One of the games is balloon darts. The dartboard is covered with solid, striped, and polka dot balloons. If a person pops a polka dot balloon with a dart, they win a prize. In the space below, color your dartboard with the three balloon types. The first few have been done for you.

Throughout the day, you tracked the type of balloons that were popped by your guests. The results are shown in the chart below:

Type of Balloon	# of Times Popped
Solid	18
Polka Dot	5
Striped	17

....

USE THE ABOVE INFORMATION TO ANSWER THE QUESTIONS BELOW:

1) What is the theoretical probability of popping a polka dot balloon? Express your answer as a fraction, decimal, and percent.

2) What is the experimental probability of popping a polka dot balloon? Express your answer as a fraction, decimal, and percent.

3) What is the experimental probability of hitting a polka dot or a solid balloon? Express your answer as a fraction, decimal, and percent.

4) What is the theoretical probability of popping a striped balloon? Express your answer as a fraction, decimal, and percent

5) What is the experimental probability of NOT popping a polka dot balloon? Express your answer as a fraction, decimal, and percent.