



You Won the Prize!!

Your favorite cereal Wheat Jacks is giving away a prize with each box of cereal. There are 6 different prizes and you want to win them all. How many boxes of cereal do you have to eat to win them all?

Minimum # of boxes = _____ Maximum # of boxes = _____

It is easy to simulate this experiment using 1 die or a random number generator. Each roll signifies one cereal box and you must get each prize, numbered 1 through 6. Do this experiment 10 times; keep track of how many rolls it takes you to get all of the prizes 1 through 6.

Simulation	1	2	3	4	5	6	7	8	9	10
Tally										
Prizes Received	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
Total # of Cereal Boxes										

Compile your experiments into a histogram. Place the number of boxes of cereal it took you on the x-axis and the frequency on the y-axis. (Use a separate sheet of graph paper.)

On average, how many boxes of cereal must you eat to get all six prizes?

How do your results compare with the rest of the class?
