

Cereal Box Worksheet

How many?

A box of cereal contains one cartoon character toy and there are six different ones to collect. If you want to collect all the toys, how many boxes of cereal would you expect to buy in order to collect one of each toy?

- Create a simulation that replicates buying boxes of cereal and one toy contained in each box to help answer the question.
- What happens when you run your simulation 10 times, 100 times, 500 times, etc.?
- Use the results from the simulations to find the mean and median number of boxes of cereal you would expect to purchase to obtain all six toys.