

Mike wants to win a giant stuffed animal at the carnival. He decided to play the “Go Fish” game, which has three prizes: a giant stuffed animal, a smaller stuffed animal, and a plastic kazoo.

The game is set up with a tank containing 1 green fish, 3 blue fish, and 6 yellow fish. To play, Mike must go fishing. The game is set up so that every time a player goes fishing, he or she will catch a fish.

To win the giant stuffed animal, Mike needs to catch a green fish.

1. Create a drawing of the game by creating a bag with tiles matching the fish colors.
  2. If *all* of the fish in the tank are green, how would you describe the probability of Mike’s winning a giant stuffed animal?
  3. The way the tank is set up (with 1 green, 3 blue, and 6 yellow fish), what are the chances that Mike will catch a black fish?
  4. What percent of the time would you expect Mike to catch a green fish and win the giant stuffed animal? How can you explain this thinking to the class?
  5. What is the probability that Mike will catch a blue fish? A yellow fish? Write each of these probabilities as a fraction and a percent.
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