

Garbage In, Garbage Out!



Ben and Jenny decide to toss a penny to see who will take out the garbage as part of their weekly chores. Neither one of them likes this chore.

Ben tells Jenny, “You toss the penny first. If it comes up tails, I win and you take out the garbage; if it comes up heads, I get to toss the penny. If the penny comes up tails, I win and you take out the garbage; if it’s heads, you win and I take out the garbage!”

Jenny complains, “But that’s not fair because you can get tails more often. You won’t be taking out the garbage as often as I will!”

Ben says, “I’ll make it fair! If I win, you take out the garbage. If you win, I take out the garbage twice.

Jenny says, “Let the games begin!”

Run an experiment with a partner to determine whether Ben has made the game fair.