

Russian Egg Roulette

Materials

- YouTube video (search: Jimmy Fallon egg roulette)
- 12 eggs
 - 8 hard-boiled (or empty)
 - 4 raw (or filled with confetti)

The Plan

Students watch Jimmy Fallon video.

Ask students about probability of getting a raw egg. Students should note that choosing eggs without replacement results in changing probabilities.

Display eggs and find a challenger! Play game, stopping to ask probabilities at each draw. Or have a recorder keep tallies on the game and find probabilities after game is concluded.

Adventurous teachers can consider getting messy!

- Go outside to a grassy area (so your janitor doesn't hate you).
- Bring a trash bag to cover student clothing.
- Wear an old t-shirt.
- Make sure school journalism is alerted so you can share your sacrifice in the school newspaper/yearbook!

Speed Dating

- Use the random normal command to create 1 male, mean = 69", sd = 3".
- Use random normal again, this time for a female, mean = 65", sd = 2.5".
- Enter 100 random males in List 1 and 100 random females in List 2.
- Subtract the lists. Count the number of negative numbers.
- Tally the simulated probability.
- Calculate the theoretical probability.