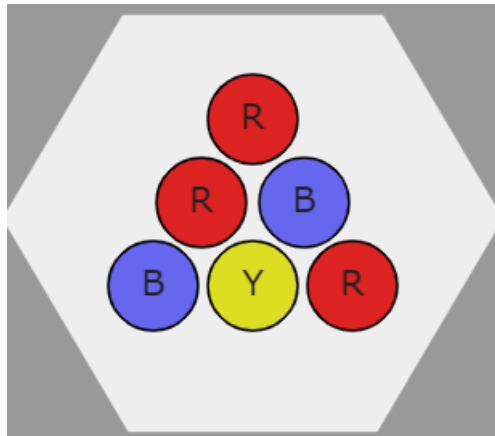


A container holds 3 red balls, 2 blue balls and 1 yellow ball.
The balls are identical in all ways except colour.

The balls move around when the container is shaken, but they always settle in a triangle-shape in the middle.



You win if at least one of the red balls is in a corner.

Approximately how often do you think you would win if you shook the container 100 times?

You could check your prediction by using the interactivity at <http://nrich.maths.org/4313> .

Can you find a way of working out the theoretical probability of winning?