Winning the Color Pick Game
When choosing 3 colors out of 5 total possible color choices, the total number of combinations is…

\[
\frac{5 \times 4 \times 3}{3 \times 2 \times 1} = \frac{60}{6} = 10
\]

There is only 1 winning combination of colors, so the probability of winning is

\[
\frac{1}{10}
\]