Name _____   Date _____

St. Patrick's Day Lucky Coin Flips

<u>Instructions</u>: The four leaf clover is a symbol of good luck. However, luck can often be calculated using statistics and probability. Estimate the probability in each of the scenarios below. Choose whether the outcome is likely, unlikely, or neither.

A leprechaun flipped one of his gold coins five times in a row. How likely is it to land on "heads" all five times?

Very Unlikely   Neither Likely nor Unlikely   Very Likely

The same leprechaun then decides to only flip his gold coin once. How likely is it to land on "heads"?

Very Unlikely   Neither Likely nor Unlikely   Very Likely

The rainbow that leads to the pot of gold has six colors in it. If a color is selected at random from the rainbow, how likely is it that the color "red" is selected?

Very Unlikely   Neither Likely nor Unlikely   Very Likely

The leprechaun's pot of gold contains 500 pieces of gold. However, upon closer examination, he finds that it also contains 10 pieces of silver. How likely is it that when a coin is selected at random, that it will be a gold coin?

Very Unlikely   Neither Likely nor Unlikely   Very Likely

Bonus Question: Calculate the probability of flipping a gold coin twice and having it land on heads both times.

Name _____   Date _____

Answer Key

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$P = 0.5 * 0.5 = 0.25$