MPS Learning Target: Statistics and Probability
MPS Learning Target #4: Design and conduct investigations, display data using appropriate representations, analyze and summarize data using measures of central tendency and variation, and evaluate methods and conclusions.
MPS Learning Target #5: Design and analyze experiments with simple and complex events, predict likelihood of outcomes, and justify strategies based on theoretical and experimental probabilities.

Wisconsin Assessment Framework for Mathematics
Objective: E. Statistics and Probability
Subskill: Probability
Descriptor:
Determine the likelihood of occurrence of simple and complex events e.g. experimental versus theoretical probability.

Objective: A. Mathematical Processes
Descriptors:
• Communicate mathematical ideas and reasoning using the vocabulary of mathematics in a variety of ways (e.g. using words, numbers, symbols, pictures, charts, tables, diagrams, graphs, and models).
• Connect mathematics to the real world as well as within mathematics.
• Solve and analyze routine and non-routine problems.

A package of candies contained 10 red candies, 10 blue candies, and 10 green candies. Bill shook up the package, opened it, and started taking out one candy at a time and eating it. The first two candies he took out and ate were blue. Bill thinks the probability of getting a blue candy on his third try is $\frac{10}{30}$ or $\frac{1}{3}$.

Is Bill correct or incorrect: **It's not correct**

Explain your answer. If he bill picked two blue that might have been a coincidence there is 30 candies in the package the next color should be a red or green.

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