

Theoretical probability

The probability we **expect** based on the total number of possible outcomes and the number of outcomes leading to the event.

$$\frac{\text{number of outcomes in the event}}{\text{total number of possible outcomes}}$$

What is the **theoretical** probability of choosing a green marble?



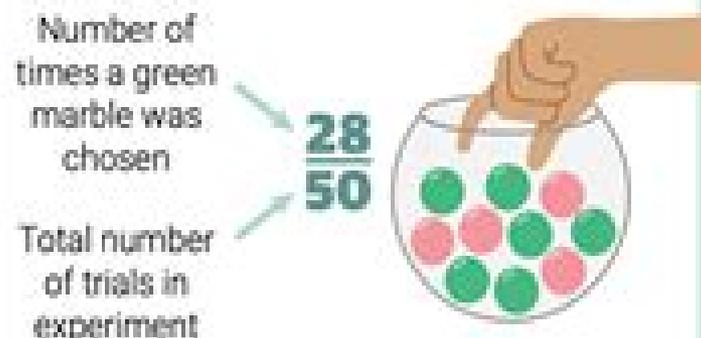
The theoretical probability of choosing a green marble is $\frac{6}{10}$ or 60%

Experimental probability

The probability calculated from the results of an **experiment** with repeated trials.

$$\frac{\text{number of times the event occurs}}{\text{total number of trials}}$$

What is the **experimental** probability of choosing a green marble?



The experimental probability of choosing a green marble is $\frac{28}{50}$ or 56%

Lesson Practice B 11 4 Theoretical Probability

Didier Musso



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