

Name _____

Date _____

Experiment 1 Probability

1.1 Introduction

Probability is a measure of the likelihood of an event occurring. It is a number between 0 and 1, where 0 represents an impossible event and 1 represents a certain event. The probability of an event is denoted by $P(A)$, where A is the event.

For example, the probability of a coin landing heads is $\frac{1}{2}$.

The probability of a die landing on a 6 is $\frac{1}{6}$.

The probability of a card being a heart is $\frac{13}{52}$.

The probability of a person being a doctor is $\frac{1}{1000}$.

The probability of a person being a doctor and a lawyer is $\frac{1}{1000000}$.

The probability of a person being a doctor, a lawyer, and a musician is $\frac{1}{1000000000}$.

The probability of a person being a doctor, a lawyer, a musician, and a politician is $\frac{1}{1000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, and a scientist is $\frac{1}{1000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, and a philosopher is $\frac{1}{1000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, and a mathematician is $\frac{1}{1000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, and a historian is $\frac{1}{1000000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, a historian, and a linguist is $\frac{1}{1000000000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, a historian, a linguist, and a geologist is $\frac{1}{1000000000000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, a historian, a linguist, a geologist, and an astronomer is $\frac{1}{1000000000000000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, a historian, a linguist, a geologist, an astronomer, and a biologist is $\frac{1}{1000000000000000000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, a historian, a linguist, a geologist, an astronomer, a biologist, and a chemist is $\frac{1}{1000000000000000000000000000000000000000}$.

The probability of a person being a doctor, a lawyer, a musician, a politician, a scientist, a philosopher, a mathematician, a historian, a linguist, a geologist, an astronomer, a biologist, a chemist, and a physicist is $\frac{1}{100}$.

Name _____

Date _____

Theoretical Probability

Use the spinner to determine



the probability of the arrow landing on each color.

Probability of landing on Yellow = $\frac{1}{8}$

Probability of landing on Green = $\frac{1}{8}$

Probability of landing on Blue = $\frac{1}{8}$

Probability of landing on Red = $\frac{1}{8}$

Probability of landing on Purple = $\frac{1}{8}$

Probability of landing on Orange = $\frac{1}{8}$

Probability of landing on Light Green = $\frac{1}{8}$

Probability of landing on Light Blue = $\frac{1}{8}$

Probability of landing on any color = $\frac{8}{8} = 1$