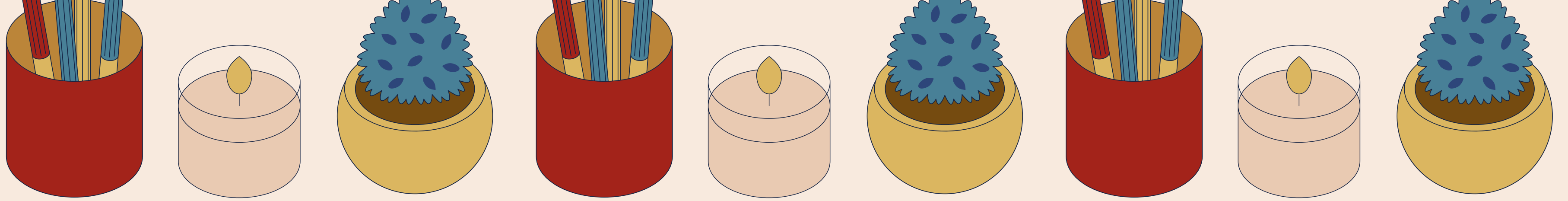


TYPES OF PROBABILITY SCIENCE

Characteristics, laws and benefits

presented by: Ali Khalid Jabbar





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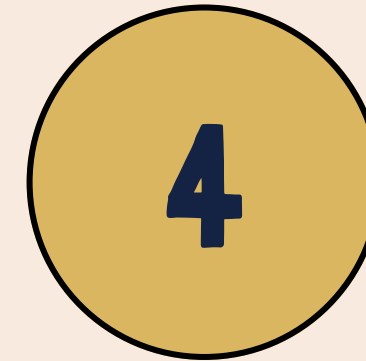
**The concept of
probability science**



**Basic concepts in
probability science**



Types of possibilities

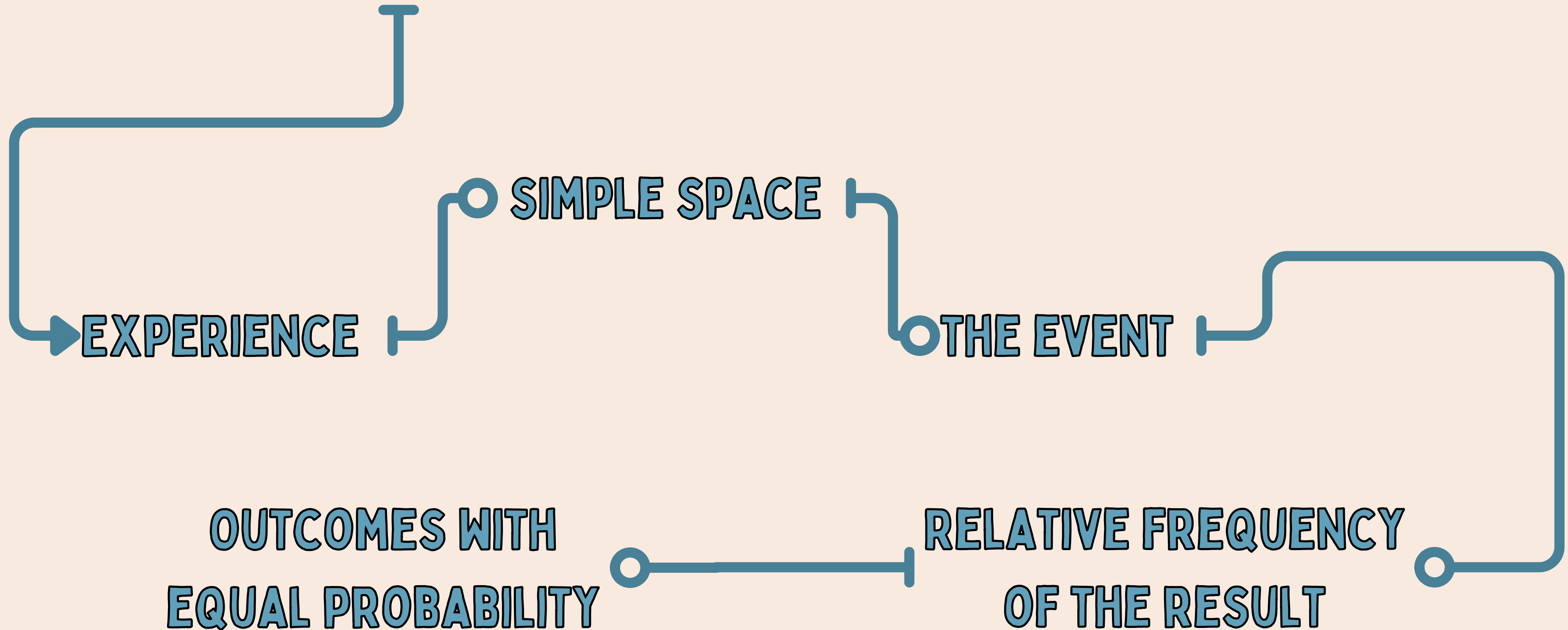
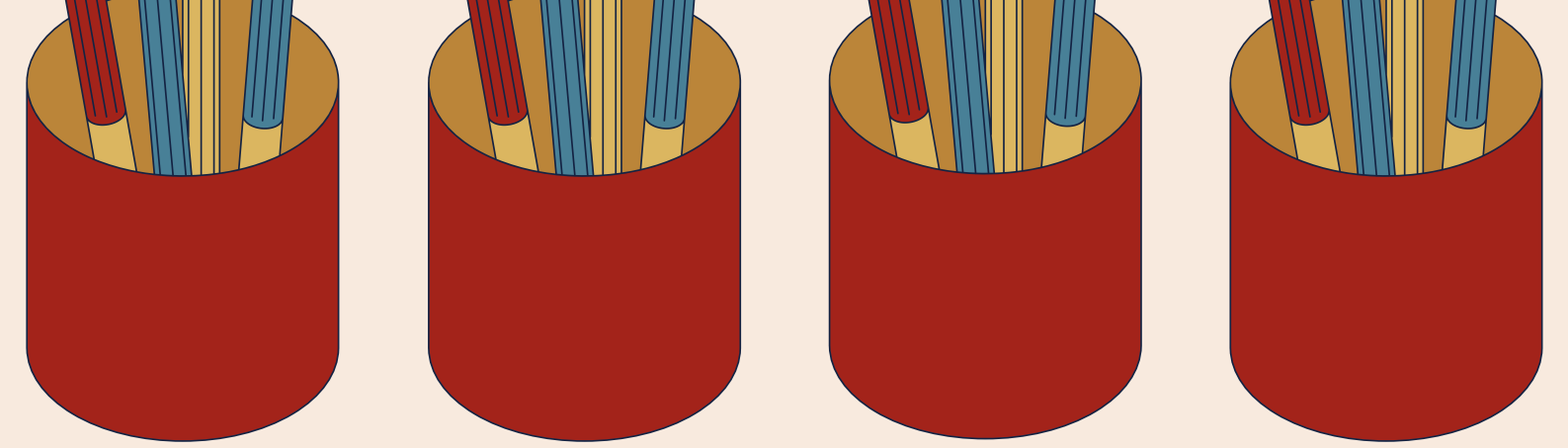


**Properties of
probabilities**



**The benefits of
probabilities in our
daily lives**

BASIC CONCEPTS IN PROBABILITY SCIENCE



TYPES OF POSSIBILITIES

THEORETICAL POSSIBILITY :

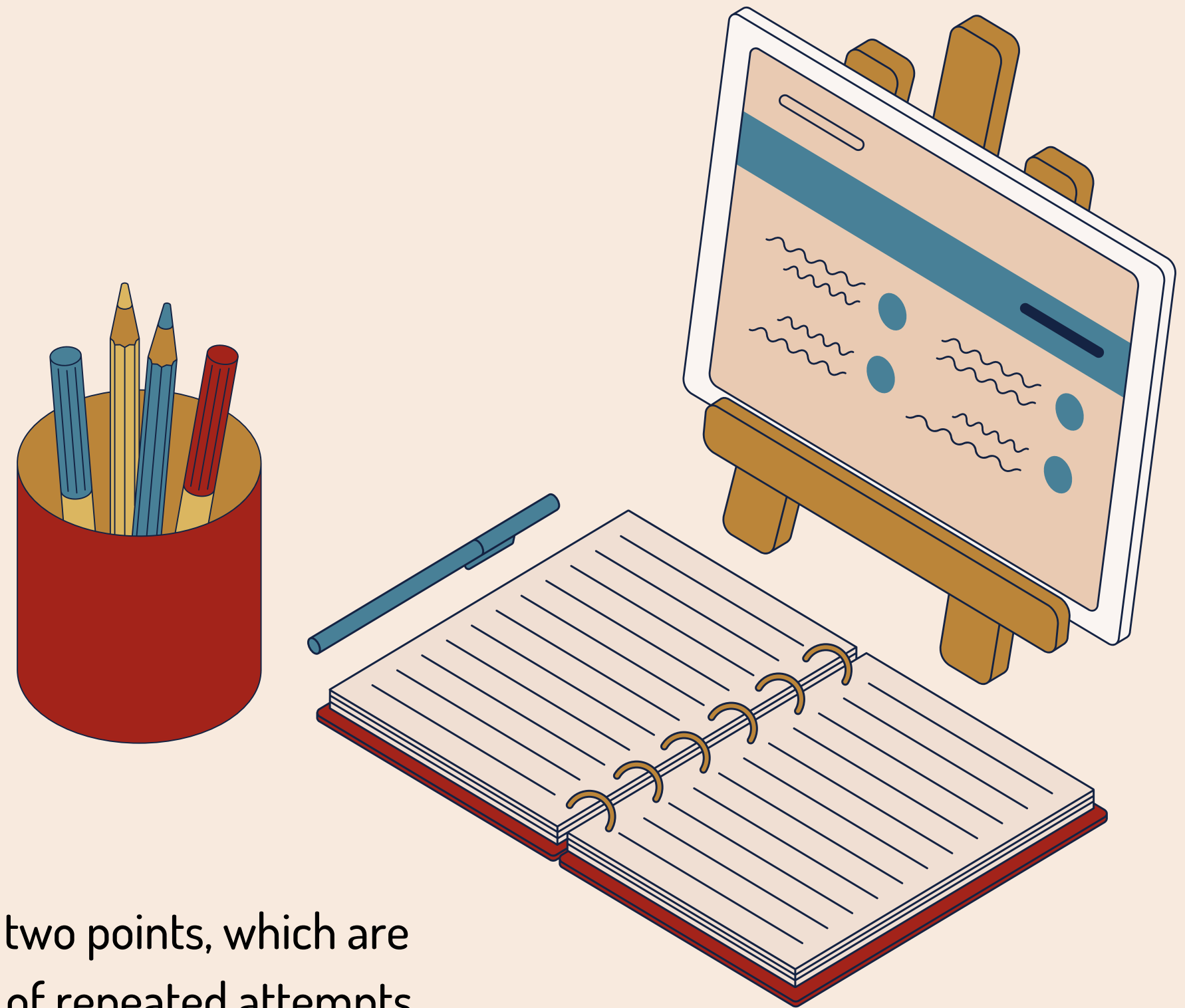
It is the probability that, during its occurrence, depends mainly on logic, such as the theoretical probability that occurs during a mock throw equals 0.5

INTUITIVE POSSIBILITY :

This type of probability is based on a set of rules or axioms developed by the mathematician Kolmogorov. These rules were called Kolmogorov's Three Rules after him, and these rules are used according to this approach

FREQUENT POSSIBILITY:

It occurs in a relative manner, as this probability depends on two points, which are the number of times the event occurs in the largest number of repeated attempts. Through this type, the rate of occurrence of an event under certain conditions is known over the long term .



READ MORE



PERSONAL OR IMPLIED PROBABILITY:

This type of possibility depends on what a person believes, according to his apparent experiences, which differ from one person to another. For example, the probability that a certain horse will win in a horse race, the person who has this probability may be due to his experience in horse racing, which made him expect this result.

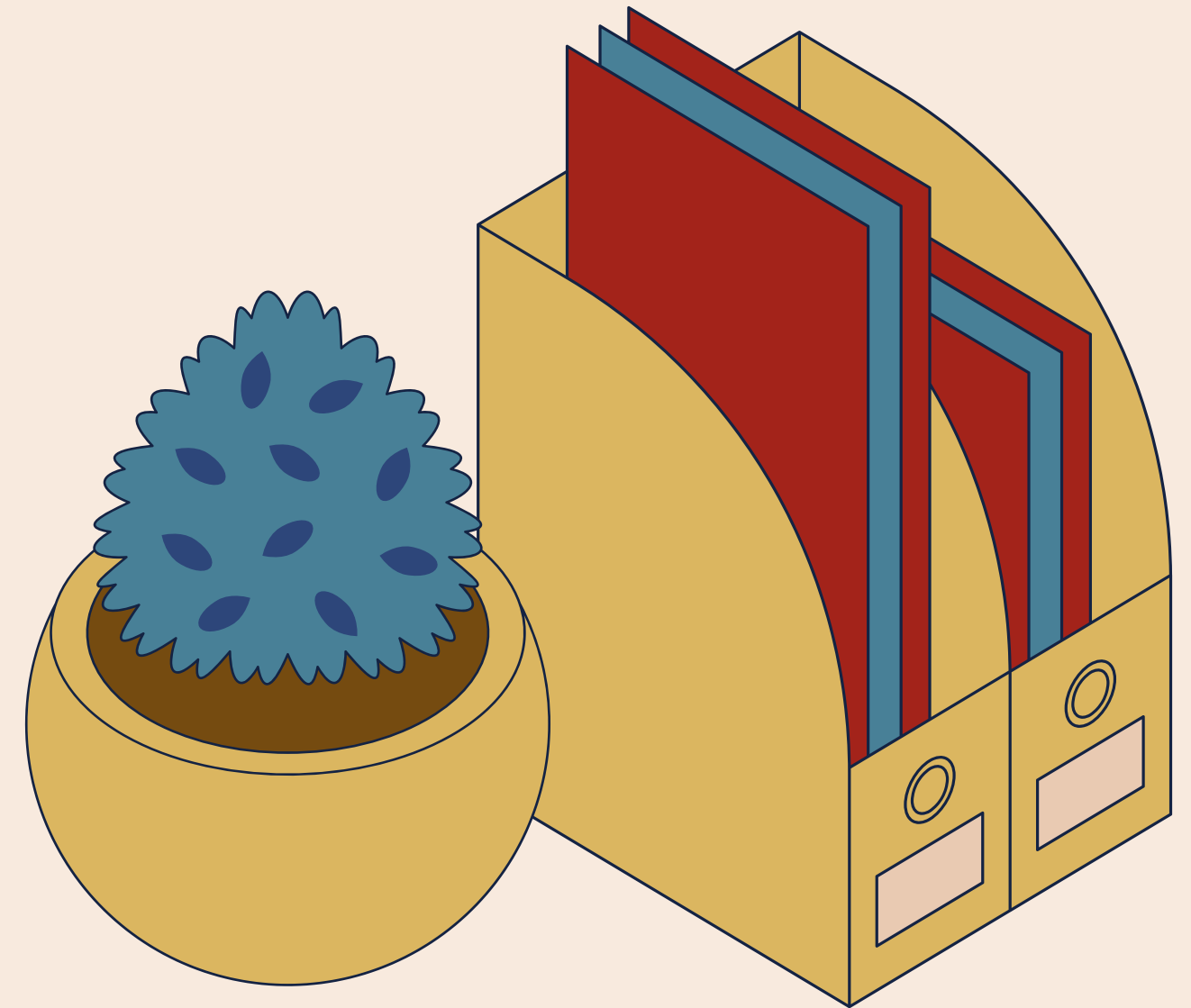
Types of accidents in probability

Probability accidents are divided

EXPERIMENTAL PROBABILITY :

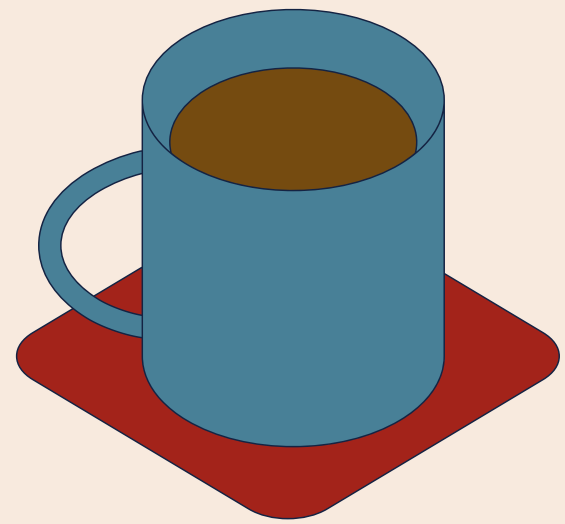
It is the probability that depends primarily on experience, and an individual can calculate it by dividing the number of times the probability was repeated by the number of times the experiment was repeated.

For example, if an individual tosses a coin ten times and heads are recorded six times, the experimental probability of this experiment is $6 \div 10 = 0.6$.





PROBABILITY ACCIDENTS ARE DIVIDED INTO THE FOLLOWING TYPES



INDEPENDENT INCIDENTS

It is one in which none of the events is affected by the other, no matter how many factors it exposes.

TWO MUTUALLY EXCLUSIVE EVENTS

These are two events that can never be done together at the same time.

NON-INDEPENDENT OR CONDITIONAL EVENTS

These are accidents whose occurrence is affected by the occurrence of other accidents.

THE BENEFITS OF PROBABILITIES IN OUR DAILY LIVES

The science of probability has important benefits for our daily lives, as this science helps us to:

Making certain decisions related to the fate of our lives.

This science can be used when we are not sure whether specific things will happen.

For example, what happens with some students who decide to stay away and not study part of the curriculum due to the possibility of not taking this part in the exam, or to cancel a trip due to expected bad weather conditions, while preparing for it by making the necessary arrangements for it.



THANK YOU FOR
LISTENING!

presented by: Ali Khalid Jabbar

