Why

We want a simple example of modeling an uncertain outcome. We consider rolling a die.

Model

The die has six sides. When we roll the die, one of the six sides is facing up. Let us model this uncertain outcome with the set of outcomes $\{1, 2, 3, 4, 5, 6\}$.

Dice

Probability Outcomes

Cardinality

Probability

Natural Numbers

Common Sense

Successor Sets

Intersection of Empty Set

Pair Unions

Set Intersections

Set Differences

Set Unions

Pair Intersections

Empty Set

Unordered Pairs

Set Specification

Set Inclusion

Standardized Accounts

Definitions

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Objects

Letters