Why

TODO

Definition

An *outcome variable* is a function from a set of outcomes to a second set. We call the second set the set of *values* of the random variable.

Notation

Let p be a probability mass function over the set of outcomes A. Let V be a non-empty set. Let $f : A \to V$. Then f is an outcome variable.

Outcome Variables

Probability Distributions

Real Summation

Intervals

Natural Summation

Real Numbers

Family Operations

Probability Outcomes

Rational Numbers

Algebras

Cardinality

Probability

Families

Operations

Injective Functions

Common Sense

Functions

Integer Numbers

Relations

Natural Sums

Zero

Ordered Pairs

Natural Numbers

Equation Solutions

Unordered Pairs

Set Unions

Set Intersections

Power Set

Set Specification

Set Inclusion

Equations

Empty Set

Set Equality

Standardized Accounts

Identity

Accounts

Quantified Statements

Deductions

Logical Statements

Statements

Identities

Sets

Objects