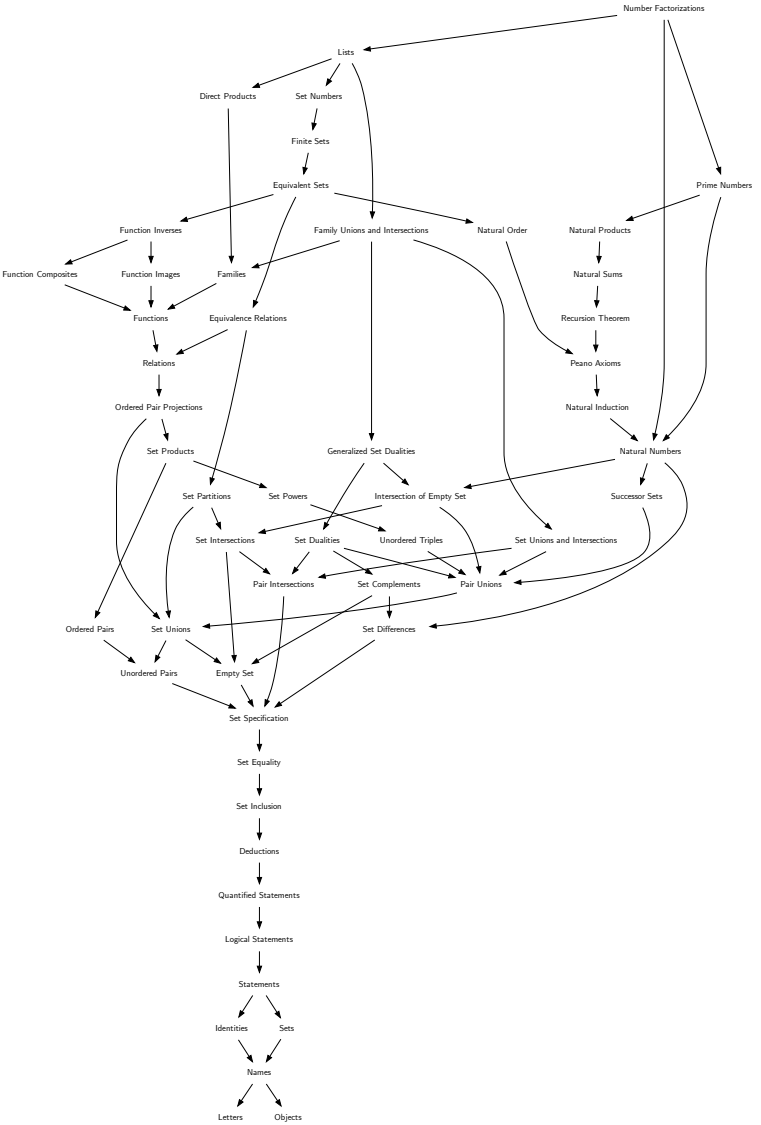
Definition

Given a number $n \in \mathbf{N}$, a *factorization* $\pi = (\pi_1, \ldots, \pi_p)$ of n is a list of numbers (in $\mathbf{N}$) satisfying

$$n = \pi_1 \pi_2 \cdots \pi_p$$

We say that the factorization π *factors* n and we call π_i a *factor*, and refer to $\{\pi_i\}$ as the *factors*.


Number Factorizations
Lists
Direct Products
Set Numbers
Finite Sets
Equivalent Sets
Prime Numbers
Function Inverses
Family Unions and Intersections
Natural Order
Natural Products
Function Composites
Function Images
Families
Natural Sums
Functions
Equivalence Relations
Recursion Theorem
Relations
Peano Axioms
Ordered Pair Projections
Natural Induction
Set Products
Generalized Set Dualities
Natural Numbers
Set Partitions
Set Powers
Intersection of Empty Set
Successor Sets
Set Intersections
Set Dualities
Unordered Triples
Set Unions and Intersections
Pair Intersections
Set Complements
Pair Unions
Ordered Pairs
Set Unions
Set Differences
Unordered Pairs
Empty Set
Set Specification
Set Equality
Set Inclusion
Deductions
Quantified Statements
Logical Statements
Statements
Identities
Sets
Names
Letters
Objects