Domain and Range

My Definition

Domain - the set of all possible values that a function consumes

Facts & Characteristics

Domains can have multiple parts: a function can consume one input, or it can also consume more than one.

Domains are always expressed as *sets*, not specific *values*

Domain

Examples

Domains can be use named sets....

- Numbers, Rational Numbers, etc.
- Strings, Strings that represent colors, etc.

Or use set notation... {...-2, -1, 0, 1, 2, ...} {true, false}

Domains can have multiple parts... (Number, Number, String, String)

Non-examples

Specific values cannot be Domains:

4 "hello" true

My Definition

Range - the set of all possible values a function can produce

Facts & Characteristics

A Range can only have one part.

Ranges are always expressed as *sets*, not specific *values*

Range

Examples

Ranges can be use named sets....

- Numbers, Rational Numbers, etc.
- Strings, Strings that represent colors, etc.

Or use set notation... {...-2, -1, 0, 1, 2, ...} {true, false}

Non-examples

Specific values cannot be Ranges:

4 "hello" true

Multiple sets cannot be ranges: Number, String