Domain and Range

Domain

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**

Examples

Domains can use named sets....
- Numbers, Rational Numbers, etc.
- Strings, Strings that represent colors, etc.

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

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

Non-examples

Specific values cannot be Domains:

4
“hello”
true

Range

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**

Examples

Ranges can use named sets....
- Numbers, Rational Numbers, etc.
- Strings, Strings that represent colors, etc.

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

Non-examples

Specific values cannot be Ranges:

4
“hello”
true

Multiple sets cannot be ranges:
Number, String