Domain, Range and Codomain

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There are special names for what can go into, and what can come out of a function:

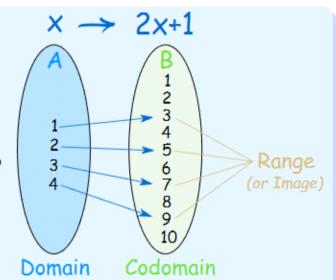✓ What can go **into** a function is called the **Domain**

✓ What **may possibly come out** of a function is called the **Codomain**

✓ What **actually comes out** of a function is called the **Range**

Example

x ⟶ 2x+1

- The set "A" is the **Domain**,

- The set "B" is the **Codomain**,

- And the set of elements that get pointed to in B (the actual values produced by the function) are the **Range**, also called the Image.

And we have:

- Domain: {1, 2, 3, 4}
- Codomain: {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
- Range: {3, 5, 7, 9}