1-6 Relations and Functions

Mapping Diagram
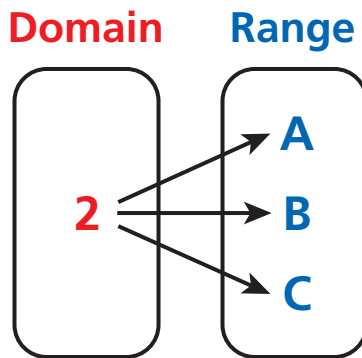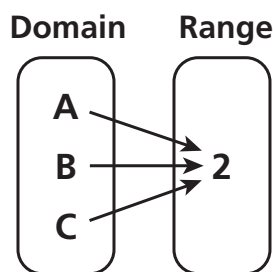
Domain   **Range**

Set of Ordered Pairs
{(2, A), (2, B), (2, C)}
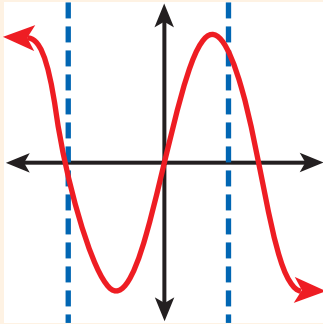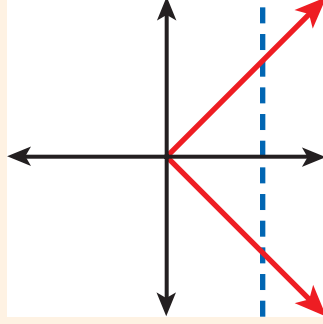**(x, y) → (input, output) → (domain, range)**
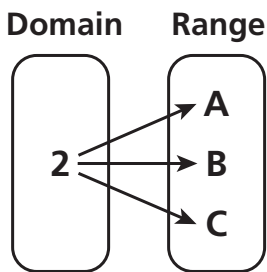
Domain   Range

Not a function: The relationship from number to letter is *not* a function because the **domain value 2** is mapped to the **range values A, B,** and **C.**

Domain   Range

Function: The relationship from letter to number is a function because **each letter in the domain** is mapped to **only one number in the range.**

Holt Algebra 2

1-6 Relations and Functions (continued)

Vertical-Line Test

WORDS	EXAMPLES
If any vertical line passes through more than one point on the graph of a relation, the relation is not a function.	**Function** **Not a Function**

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