

CONCEPT SUMMARY Relations and Functions

WORDS A **relation** is any set of ordered pairs.

A relation is a **function** when each input, or element in the domain, has exactly one output, or element in the range.

TABLE

x	-5	-2	-1	2	4
y	0	4	-3	4	-1

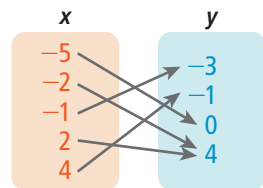
Each element in the domain is associated with exactly one element in the range.

NUMBERS

$\{(-5, 0), (-2, 4), (-1, -3), (2, 4), (4, -1)\}$

The domain is the set of x-values.
The range is the set of y-values.

DIAGRAM



Each element in the domain is assigned one element in the range.

GRAPH

