

Ways to Represent Relations

Set of Ordered Pairs

Input/Output Table

Coordinate Plane

Mapping Diagram

Sets of ordered pairs are always written inside curly brackets. Each ordered pair is separated from the next with a comma.

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

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

The input is always .
The output is always .

Vertical Table

x	y

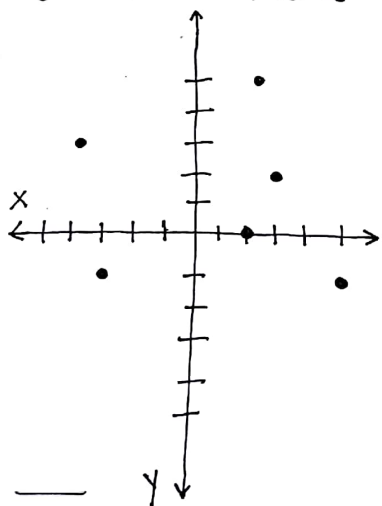
Horizontal Table

x	y

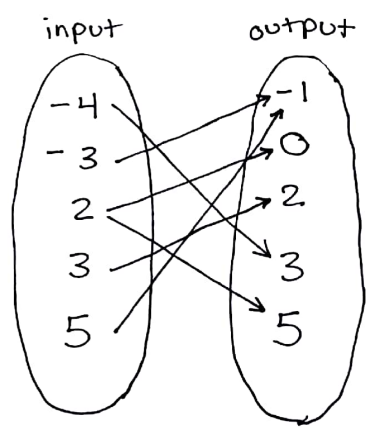
Set of Ordered Pairs

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

Coordinate Plane



Mapping Diagram



The left shape contains all of the inputs (x-values) without repeats. The right shape contains all of the outputs (y-values) without repeats. An arrow is drawn from each input value to its corresponding output value.

(x, y)

The x-coordinate tells you how far to move left/right

The y-coordinate tells you how far to move up/down