FUNCTIONS

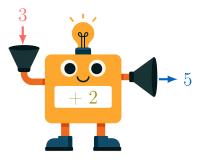
A DEFINITION

Definition **Function**

A function is a rule that assigns to each input exactly one output. You can think of a function as a machine: for every input you give it, the machine produces an output according to a specific rule.

Ex:

- The rule is: add 2.
- The input is: 3.
- The output is: 3+2=5.

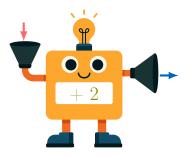


B TABLE OF VALUES

- Definition Table of values -

A table of values is a table that shows several pairs of input and output values for a function.

Ex:



Here is a table of values for the rule "add 2":

Input	2	3	4
Output	4	5	6

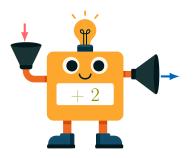
C GRAPHS

Definition Graph

A graph of a relation is the set of points (Input, Output) in a coordinate plane.

Definition Line Graph

A line graph of a relation is the set of points (Input, Output) connected by straight line segments.

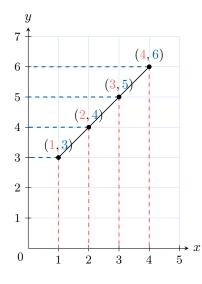


Plot the line graph for the rule "add 2" using the table of values below:

Input	1	2	3	4
Output	3	4	5	6

Answer:

• Plot the points (1,3), (2,4), (3,5), (4,6) on a graph.



• Connect the points in order with straight line segments to form the line graph.

