Algebra I

1-6

Represent Functions as Rules and Tables

	Rules and Tables
Defin	nitions
	Function -
	Domain -
	Range -
	<u>Independent Variable</u> -

Examples

1) The input-output table shows the temperatures over various increments of time. Identify the domain and range of the function.

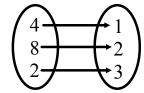
Input	0	2	4	6
Output	24	27	30	33

<u>Dependent Variable</u> -

Domain:

Range:_____

- 2) Tell whether the pairing is a function. Explain.
 - a) Input Output



b)	Input	Output
	2	2
	2	4
	3	6
	4	8

Functions defined by a rule

R	ule
'ha	outr

Equation

T	a	bl	e

The output is
two less than
the input.

Input	2	4	6	8	10
Output					

Examples:

3) The domain of the function y = 3x is $D = \{0,1,2,3\}$. Make a table for the function, then identify the range of the function.

х	0	1	2	3
y = 3x				

Range:

4) Write a rule for the function.

Input	3	5	7	9	11
Output	6	10	14	18	22

Let x be the input and y be the output. Notice that each output is ______ the corresponding input. So, a rule for the function is ______.

Checkpoint

Write a rule for the function. Identify the domain and the range.

Yarn (yd)	1	2	3	4
Cost (\$)	1.5	3	4.5	6

Rule____

Domain____

Range____

Assignment: