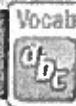


Vocabulary

Vocabulary Start-Up



A linear function is a function whose graph is a line.

Linear

forms a
straight line

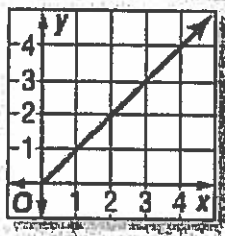
Everyday Definition of Function

WORKS properly

linear
function

What do you notice
about the graph?

forms a
line



Math Definition
of Function

a relation that gives
exactly one output
for one input

Linear Function - A function whose graph is a line.

A relationship that assigns exactly one output value to one input value.

Guided Practice

1.) Write an equation to represent the function shown in the table.

Input (x)	0	1	2	3	4
Output (y)	0	4	8	12	16

$$x \cdot 4 = y \quad \text{OR} \quad 4x = y$$

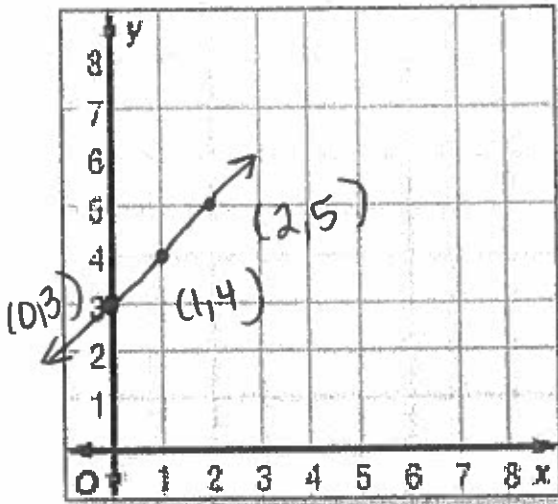
2.) Write an equation to represent the function shown in the table.

Input (x)	1	2	4	8	16
Output (y)	5	10	20	40	80

$$x \cdot 5 = y \quad \text{OR} \quad 5x = y$$

3.) Graph the function $y = x + 3$

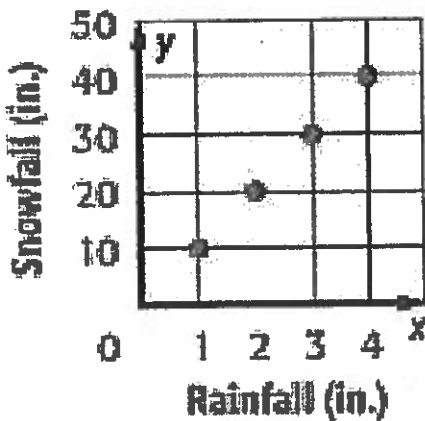
you choose!



$(0, 3)$
 $(1, 4)$
 $(2, 5)$

Input (x)	$x + 3$	Output (y)
0	$0 + 3$	3
1	$1 + 3$	4
2	$2 + 3$	5

4.) The graph below shows the number of inches of rainfall (x) equivalent to inches of snow (y). Make a function table for the input-output values. Write an equation from the graph that can be used to find the total inches of snow (y) equivalent to inches of rain (x).



. 10

Rain (x)	Snow (y)
1	10
2	20
3	30
4	40

$x \cdot 10 = y$
 $10x = y$

Partner Talk

Write an equation to represent the function.

.6

Input (x)	1	2	3	4	5
Output (y)	6	12	18	24	30

$x \cdot 6 = y$ $6x = y$

Building on the Essential Question - How are ordered pairs of a function used to create the graph of the function? Plot the ordered pairs on the

graph and then draw a line.

Rate Yourself - Are you ready to move one? Shade the section that applies.

