

## Indicators

### Objective:

**5.01 Identify, analyze, and create linear relations, sequences, and functions using symbols, graphs, tables, diagrams, and written descriptions.**

Vocabulary and Resources		
variable	order of operations	range
independent	simplify	input
dependent	like terms	output
evaluate	domain	

**A.** Fill in the missing numbers for each of the following linear relations and give the equation that identifies the relation. Make a graph of the equation.

<i>X</i>	1	2	3	4	5	6
<i>Y</i>	3	6	9	12		

Equation:  $Y =$

<i>C</i>	1	2	3	4	5	6
<i>D</i>	-1	3	7	11		

Equation:  $D =$

**B.** The set of data represented in the table below represents a linear function. Write the equation for this function and graph it.

$x$	$y$
-4	-14
-1	-5
0	-2
2	4
5	13

**C.** Consider the “stairstep” diagrams below. Find the perimeter for each figure. Can you identify a general expression for the perimeter of the  $n$ th figure?

