

Name _____ Date _____

Linear Relations - Exit Slip # 1

1 a) Complete the table below (3 marks)

Input , x	Output , y
1	12
2	17
3	
4	
5	

b) Write an equation to describe the relationship between x and y (1 mark).

c) Use your equation to find y when x = 9 (1 mark).

2) Describe the pattern in each table of values (5 marks)

x	y
-2	8
-1	6
0	4
1	2
2	0

x increases by _____ each time.
Y decreases by _____ each time.
The relation is _____, because a _____ change in x produces a constant change in ____.

3) In each equation, find the value of E when n = 5 (1 mark each)

a) $E = 7 + n$

b) $E = 4n - 6$

Unit 4 Vocabulary (/18 Marks)

1	Vertical Axis		y-coordinate
2	Horizontal Axis		Contains numbers, variables and/or operation symbols
3	Linear Relation		x - coordinate
4	Discrete Data		A mathematical statement that shows two expressions are equal.
5	Graph		Data on the graph that is not joined with a line.
6	Increase		x-axis
7	Decrease		A visual representation that shows a numerical relationship.
8	Pattern		To go down
9	Algebraic Expression		When the graph of a relation is a straight line.
10	Variable		To go up
11	Constant		y-axis
12	Numerical Coefficient		A design or sequence that is predictable because part of it repeats.
13	Value		$Y=3x + 7$
14	Equation		How much something is worth or the output of a calculation.
15	Relation		$Y=3x + 7$
16	(3, 4)		When two variables are related, they form a ...
17	Ordered Pair		$Y=3x + 7$
18	(3, 4		A set of two numbers named in a specific order; represented by (x, y)