MS Algebra: 2.5.1

Any ?s on HW: 2.1.2

Goal: I can represent linear functions with tables, verbal descriptions, symbols, equations, and graphs and translate from one representation to another.

HW: Worksheet 2.5.1

Video 1: Height of the Stack

time x	height y
0	15
3	20
6	25
9	30
12	35

+3 ( ) +5

Independent Variable: time

Dependent Variable: height

time (seconds) — height (cm)

Do the table and graph represent a linear function? Explain your answer.
Yes all the points are on a line.
As x increases by 3, y always increases by 5

Video 2: Water Volume

x	y
0	0
5	200
10	400
15	600

+5 ( ) +200

Independent Variable: time

Dependent Variable: water volume

water volume (mm) — time (seconds)

Do the table and graph represent a linear function? Explain your answer.
Yes - makes a straight line.
As time increases by 5, volume increases by 200

Video 3: Height of Waist off the Ground

time x	height y
0	7
1	2
3	7
4	6
5	7
6	2
7	7
8	7
9	2
10	6
11	8
12	4

Independent Variable: time

Dependent Variable: height

height of waist off the ground — time

Do the table and graph represent a linear function? Explain your answer.
No - the graph is not a line
the table changes by different amounts