Unit 6 Lesson 1: A Different Kind of Change

1 Notice and Wonder: Three Tables (Warm up)

Student Task Statement

Look at the patterns in the 3 tables. What do you notice? What do you wonder?

x	у
1	0
2	5
3	10
4	15
5	20

х	у
1	3
2	6
3	12
4	24
5	48

у
8
11
10
5
-4

2 Measuring a Garden

Student Task Statement

Noah has 50 meters of fencing to completely enclose a rectangular garden in the backyard.

1. Draw some possible diagrams of Noah's garden. Label the length and width of each rectangle.

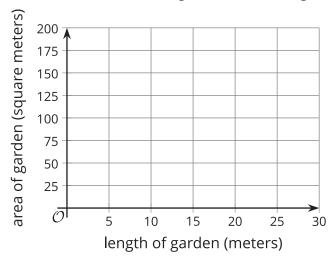


2. Find the length and width of such a rectangle that would produce the largest possible area. Explain or show why you think that pair of length and width gives the largest possible area.

3 Plotting the Measurements of the Garden

Student Task Statement

1. Plot some values for the length and area of the garden on the coordinate plane.



- 2. What do you notice about the plotted points?
- 3. The points (3,66) and (22,66) each represent the length and area of the garden. Plot these 2 points on coordinate plane, if you haven't already done so. What do these points mean in this situation?
- 4. Could the point (1,25) represent the length and area of the garden? Explain how you know.