Date_____



Fencing a Garden

This graph shows the relationship between the side length of a square garden and the perimeter.



- 1. a) Complete the table of values for the relationship.
 - b) What does x represent?

x	У
0	
1	
2	
3	
4	

c) What does y represent?

Fencing a Garden (cont'd)

2. Why are the points on the graph joined by a line?

3. Write an equation to describe the relationship in the graph and table.

4. How much fencing material would a person need to fence a square garden with sides 6 m long? How did you determine your answer?



Fencing a Garden (cont'd)

5. Suppose a person has 14 m of fencing. What is the side length of the largest square garden they could enclose if the side length does not need to be a whole number of metres? How did you determine your answer?