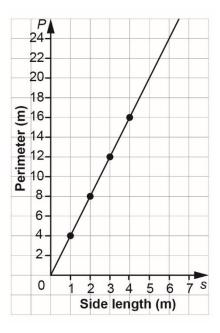
Algebra Unit 1 Line Master 3a

Fencing a Garden

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



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

s	P
0	
1	
2	
3	
4	

c) What does P represent?

Nama	Data
Name	Dale

Algebra Unit 1 Line Master 3b

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?

Name	Date

Algebra Unit 1 Line Master 3c

Fencing a Garden (cont'd)

5. Suppose a person has 20 m of fencing. What is the side length of the largest square garden they could enclose? How did you determine your answer?

6. 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?