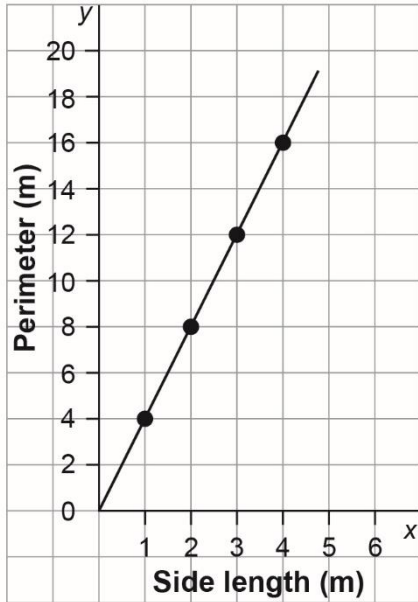Name_____ Date_____

**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.

| x | y |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |

b) What does *x* represent?

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?

Name_____ Date_____

# 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?

**Mathology 8 PEI,** *Linear Relations and Equations*
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