$\qquad$
$\qquad$

## 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.


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

| $\boldsymbol{s}$ | $\boldsymbol{P}$ |
| :---: | :---: |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

c) What does $P$ represent?
$\qquad$
$\qquad$

## 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?
$\qquad$
$\qquad$

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?

