Fencing a Garden

**Algebra
Unit 1 Line Master 3a**

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



|  |  |
| --- | --- |
| ***s*** | ***P*** |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

1. a) Complete the table of values
for the relationship.

 b) What does *s* represent?

 c) What does *P* represent?

 Fencing a Garden (cont’d)

**Algebra
Unit 1 Line Master 3b**

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)

**Algebra
Unit 1 Line Master 3c**

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?