

# Student Worksheet 2

## TI-15 Explorer™: Area and Perimeter

W2

Name:

Group Members:

### Nana's Garden Assignment Task

Tyson's Nana loves her garden but is getting too old to walk on uneven surfaces.

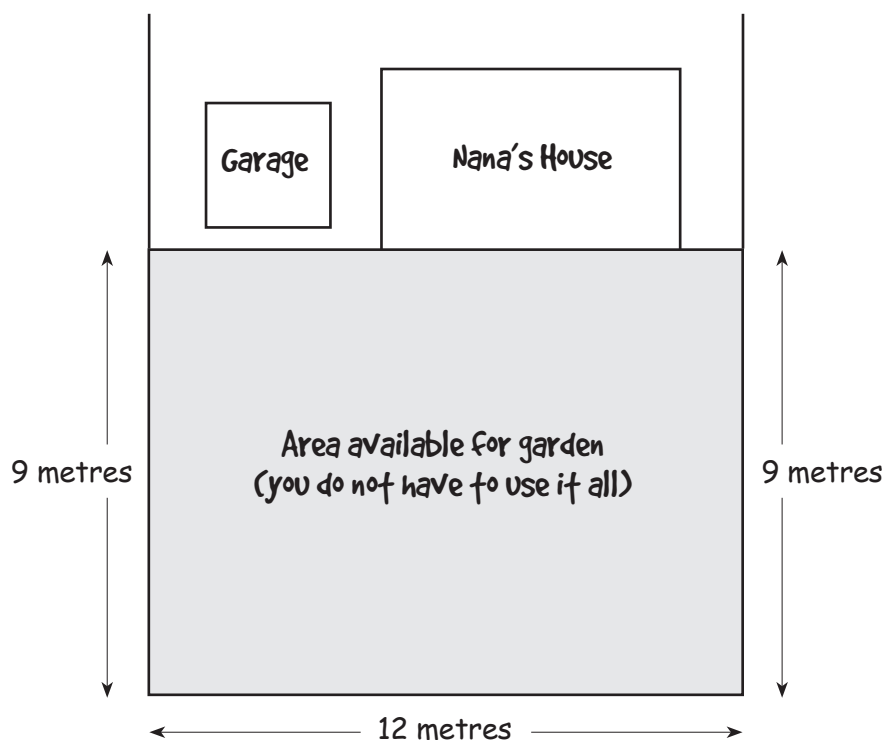
Tyson has decided to build an easy care garden for his Nana with his Uncles help.

Tyson is designing a garden with raised beds using treated pine logs stacked 3 high and concrete paths around the beds.

Nana cannot reach more than a metre into the garden bed and the paths need to be 1 m wide to allow her to walk around easily.

Treated pine logs cost \$20 per metre and concrete laid 75 mm thick with reinforcing costs \$25 m<sup>2</sup>.

The space available for Nana's garden is 12 m by 9 m and looks like this:



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1. Help Tyson design his Nana's Garden.
2. Calculate the total area of the garden beds.
3. Work out how much your garden will cost.
4. Compare your garden with the others in your class or group.

**Hint: use grid paper for your designs.**