

Extending the garden

This task is about working out the length of fence needed for the perimeter around a garden.

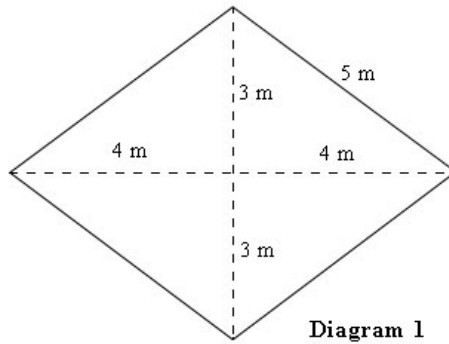


Diagram 1

Mr Rapson has an unusual diamond-shaped garden, with all its sides 5 m, as shown above in Diagram 1.

a) How much fencing would he need to go right around the garden? m

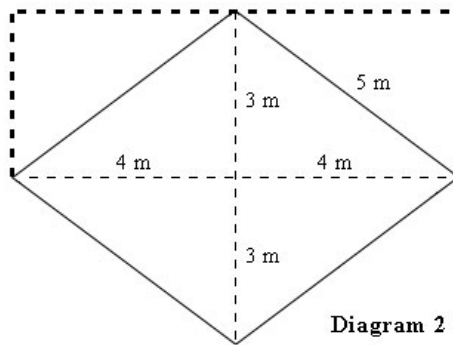


Diagram 2

Mr Rapson extended the garden on one side up to the dotted lines, as shown in Diagram 2.

b) How much fencing would he now need to go right around the garden? m