

Sample task 2: Fencing

You are working for a company that builds fences. The fences are built using concrete posts, wooden fence panels and gravel boards. Each fence panel is fixed between two concrete posts and beneath each panel there is a gravel board to protect the wood from the ground.



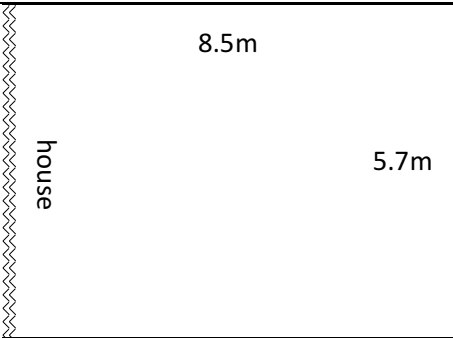
The fence panels, gravel boards and concrete posts come in the following sizes. You can cut the fence panels and gravel boards if necessary to make them smaller.

Item	Length	Height	Cost
Fence panel	1.52m	1.83m	£25.98
Post	2.40m	0.10m	£10.99
Gravel board	0.15m	1.83m	£6.99

If you build a fence using just three panels:

- How many fence posts would you need?
- What would the total length of the fence be?

Here is a diagram of a rectangular garden. It needs fencing on three sides. You will need to place one fence post at each corner.



How many fence posts, panels and gravel boards will you need to buy? Draw a sketch of how you will arrange the posts and fence panels.

Now work out the total cost of the materials using the information given in the table.