Great Gardens

You need: a calculator

Sophie's family have just moved into a new home. Sophie loves gardening, so her parents are letting her plan the garden.

Digging ... my favourite activity!

ACTIVITY ONE

Her first project is a rectangular flower garden at the side of the house.

70 cm

4.6 m

1. What is the area of this garden?

2. One of the long sides is against the house.
   How many metres of garden edging will she need to buy for the other 3 sides?

3. Sophie buys half a cubic metre of topsoil for this garden.
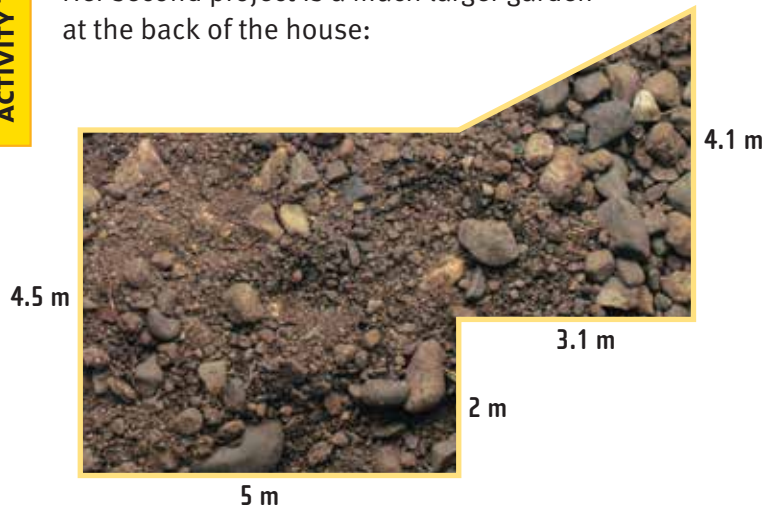   How deep is the topsoil after it has been spread?

4. Sophie found that she could buy bark in 50 litre bags.
   a. What is the volume of one of these bags in cubic metres?
   b. How many bags will she need if the bark is to be at least 5 centimetres deep?
   c. There are only 2 bags left. How deep can Sophie cover her garden using just 2 bags of bark?

BARK
50 litres covers 1 m by 1 m by 5 cm deep.

Her second project is a much larger garden at the back of the house:

4.1 m

4.5 m

3.1 m

2 m

5 m

1. What is the total area of this garden?

2. Sophie decides to add topsoil to a depth of 15 centimetres. How much topsoil will she need?

3. Again, Sophie wants to cover the soil with a 5 centimetre layer of bark.
   a. What volume of bark is this?
   b. How many 50 litre bags will she need to buy?

4. How many metres of edging will she need for this garden?