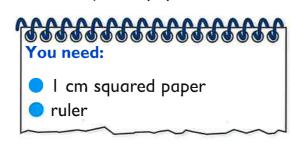


- Draw a diagram and record in a table the steps needed to solve the problem
- A square garden pond has square slabs with sides I m long around the perimeter.
   Copy these diagrams of square garden ponds on to I cm squared paper.







You need:

paper

I cm squared

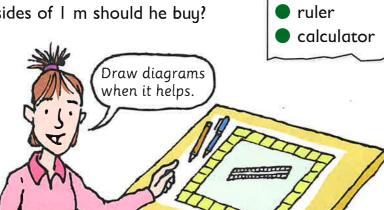
- **b** Draw the next two ponds with sides of 3 m and 4 m.
- c Copy and complete the table for the number of slabs needed for a pond with up to 4 m sides.

Length of side of pond (m)	L	2	3	4	5
Number of slabs					

- d Look for a pattern and use it to find the number of slabs for a square pond with sides of 5 m. Record your results in the table.
- The DIY centre sells square ponds and square slabs to surround them.

Customer I has built a square pond with sides of 8 m. How many square slabs, with sides of I m should he buy?

a On squared paper draw diagrams of ponds with sides of I m, 2 m, and 3 m.
 Surround each pond with I m square slabs.



**b** Copy and complete the table.

Length of side of pond (m)	Ι	2	3	4	5
Number of slabs					

- c Look for a pattern in the table and write it as a rule.
- d Use the rule to find the number of slabs the customer needs to buy for his 8 m pond.
- e I m square slabs cost £7.95 each. Find the cost of the customer's order.
- Customer 2 has built a rectangular pond with sides of 4 m by 3 m. She is planning to lay square slabs with sides 1 m long around the perimeter of her pond.
  - a How many I m square slabs will she need?
  - **b** At £7.95 per slab, find the cost of her order.
- 3 Customer 3 has designed a pond which has an irregular shape.
  - **a** How many square I m slabs will he need?
  - **b** He chooses a more expensive square slab at £8.49 each. How much will he pay for his slabs?
- The DIY store sells square slabs with sides of 50 cm.

  How many slabs would Customer 3 need to buy to cover the same area as the I m slabs surrounding his
  - What if he chooses slabs with sides of 0.25 m?

irregular-shaped pond?

