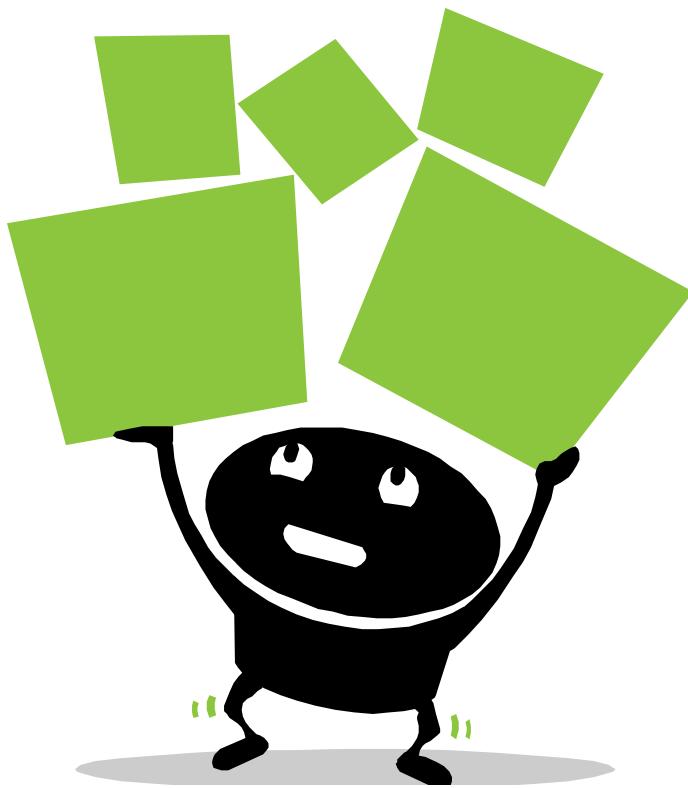


# Area, perimeter and volume – recap tasks

Name \_\_\_\_\_ Date \_\_\_\_\_

Today we are going to:

- Recap on area and perimeter (formulae and counting methods).
- Check all units are the same and convert if not.
- Estimate the area and perimeter of a rectangular room and then calculate.
- Estimate the volume of a rectangular room and then then calculate.



# Area, perimeter and volume – recap tasks

Name \_\_\_\_\_ Date \_\_\_\_\_

You must show all your working out

## Recap

1. What is the formula for calculating the perimeter of a rectangle?

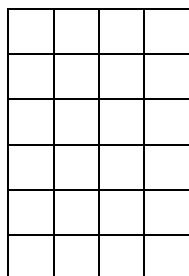
2. What is the perimeter of this shape?



3. What is the formula for calculating the area of a rectangle?

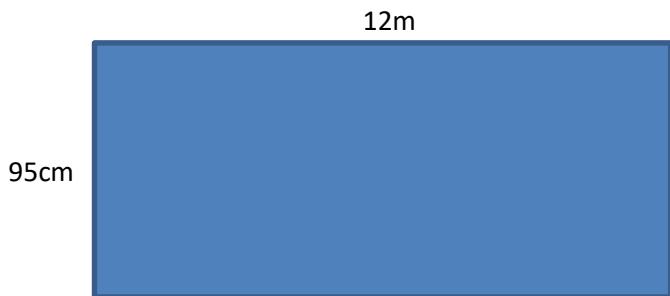
4. What is the area of the shape in 2. above?

5. If you do not know the lengths of the sides of a shape, how could you calculate the area of the shape below?



Not drawn accurately.  
Each small square  
represents  $1\text{cm}^2$

6. What is the area of this pond in square metres?



## **Area, perimeter and volume – recap tasks**

Name \_\_\_\_\_ Date \_\_\_\_\_

# You must show all your working out



## Estimating area and volume

1. Discuss as a group how long you think this room is and make a decision:

2. Now decide how wide you think the room is:

3. Use 1. and 2. to estimate the perimeter and the area of the floor of the room.

4. Now measure the room to the **nearest cm**.

Length:  Width:

5. Now convert your measurements to metres.

6. What is the actual perimeter of the room? And the actual area of the floor?

7. How close were you?

8. Now measure the height of the ceiling:

9. Do you know how to calculate the volume of the room? Discuss in your group.

10. One cubic metre ( $1\text{m}^3$ ) holds exactly 1000 litres of liquid. If we filled this room with water, how many litres would it hold?