SHAPE, SPACE AND MEASURES

Pupils should be taught to:	As outcomes, Year 7 pupils should, for example:
Deduce and use formulae to calculate lengths, perimeters, areas and volumes in 2-D and 3-D shapes	Use, read and write, spelling correctly: area, surface, surface area, perimeter, distance, edge… and use the units: square centimetre (cm^2), square metre (m^2), square millimetre (mm^2)…

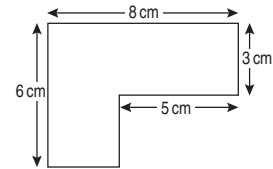**Deduce and use formulae for the perimeter and area of a rectangle.**

Derive and use a formula for the area of a right-angled triangle, thinking of it as half a rectangle:
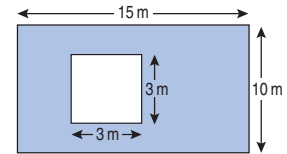
    area = ½ × base length × height
    area = ½bh

Calculate the perimeter and area of shapes made from rectangles. For example:
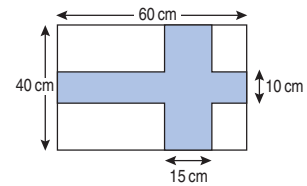
• Find the area of this shape.

• Find the shaded area.

• Find the area and outside perimeter of a path 1 metre wide bordering a 5 metre square lawn.

• Here is a flag.

    Calculate the area of the shaded cross.

• Find the area of this quadrilateral:
  a. by completing the 3 by 3 square and subtracting the pieces outside the quadrilateral;
  b. by dissecting the inside of the quadrilateral into rectangles and/or right-angled triangles.