

## Shapes Same Area

1. Tony has created a shape using rectangles, but has hidden the design of it.

He says,



It is a compound shape that is made up of more than 2 rectangles.

One of the rectangles has a width of 3.5cm.

One of the rectangles has a length between 50mm and 135mm, which is also a whole number in cm.

The shape has total area greater than  $50\text{cm}^2$ , but less than  $100\text{cm}^2$ .

Investigate what his shape could look like. Explore different possibilities.

DP

2. Below are a selection of different measurements.

12cm

8cm

90mm

45mm

12cm

1.5cm

25mm

50mm

3cm

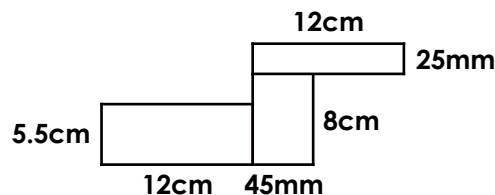
11cm

35mm

5.5cm

Use the different measurements as widths and lengths to create compound shapes that have at least 6 sides. Each measurement can be used more than once.

An example is shown below.



*not to scale*

Investigate the possible total area that your shapes produce.

DP