## MEASURES - AREA

LEVEL D. 4

## RECOGNISE THAT THE LENGTH OF THE PERIMETER OF A RECTANGULAR SHAPE DOES NOT

 DETERMINE THE AREA OF THE SHAPE
## Fixed Perimeters ${ }^{120}$

Give pairs or groups of pupils a piece of non-stretching string that is 24 cm long and 1 cm grid paper. Alternatively, they can work with the paper alone. Pupils investigate the various rectangles that can be made with a perimeter of 24 cm . Each different rectangle can be recorded on grid paper and pupils record the area of the rectangle also.

## Fixed Areas

This activity follows on from the previous activity and challenges pupils to see how many rectangles can be made with an area of $36 \mathrm{~cm}^{2}$. Pupils can use square paper to record their rectangles. For each rectangle, pupils should determine and record the perimeter inside the figure.


## CONSOLIDATION ACTIVITIES

Can they be Equal? ${ }^{121}$
This poster based on a problem from the Nrich website challenges pupils to find a rectangle whose area and perimeter is of the same numerical value.

## Fence it ${ }^{122}$

This problem is also from the Nrich website. Pupils must consider the greatest area of rectangular land that can be enclosed using 40 metres of fencing. This problem has varying levels of difficulty and can be differentiated to enable multiple access points for pupils.


[^0]
[^0]:    ${ }^{120}$ Van De Walle 2007 p. 388
    ${ }^{121}$ http://nrich.maths.org/7996
    ${ }^{122}$ https://nrich.maths.org/2663

