

- 1) Meera is incorrect as shape A has a perimeter of 24cm and shape B has a perimeter of 19cm.
- 2) David is correct. The compound shape has a perimeter of 24cm, which is the same as the rectangle he has described.



1) There are 15 different possible rectangles, with the following measurements: Icm by 29cm, 2cm by 28cm, 3cm by 27cm, 4cm by 26cm, 5cm by 25cm, 6cm by 24cm, 7cm by 23cm, 8cm by 22cm, 9cm by 21cm, 10cm by 20cm, 11cm by 19cm, 12cm by 18cm, 13cm by 17cm, 14cm by 16cm and 15cm by 15cm.



2) The field has a perimeter of 37cm which scales up to 370m.

Wooden Fencing	Electric Fencing
250m	120m
245m	125m
240m	130m
235m	135m
230m	140m
225m	145m
220m	150m

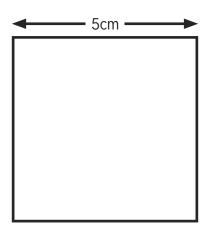
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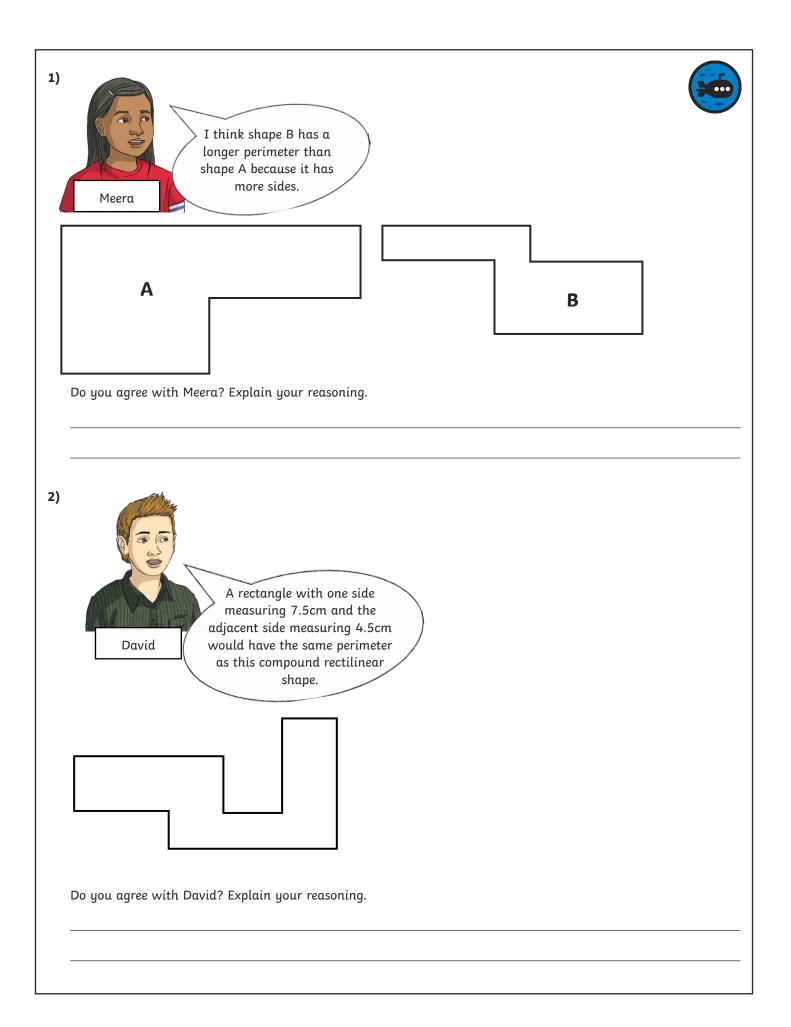
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Foxit Reader

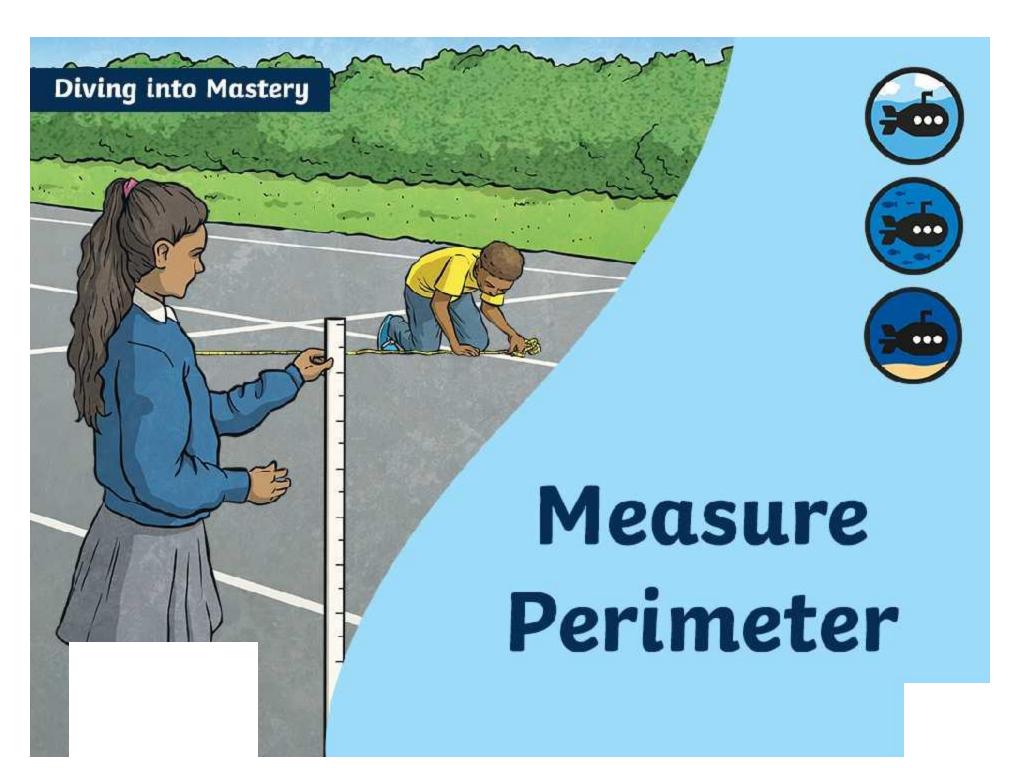
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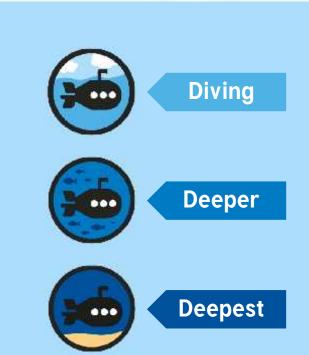


1)	How many different rectangles can you draw that have a perimeter of 60cm? (Each side lengt be a whole number.)	h needs to
	Do you have to draw all your answers or can you find a systematic way of recording the the sides?	lengths of
2)	Here is the shape of a field. It is drawn to a scale of 1cm:10m. This means that 1cm on the drawing represents 10m in real life.	
	The farmer has 250m of wooden fencing and 150m of electric fencing to use around the perimeter of the field.	
	Find all the possible combinations of fencing in multiples of 5m that the farmer can use to completely enclose the field.	
	Find a systematic way to record your findings.	



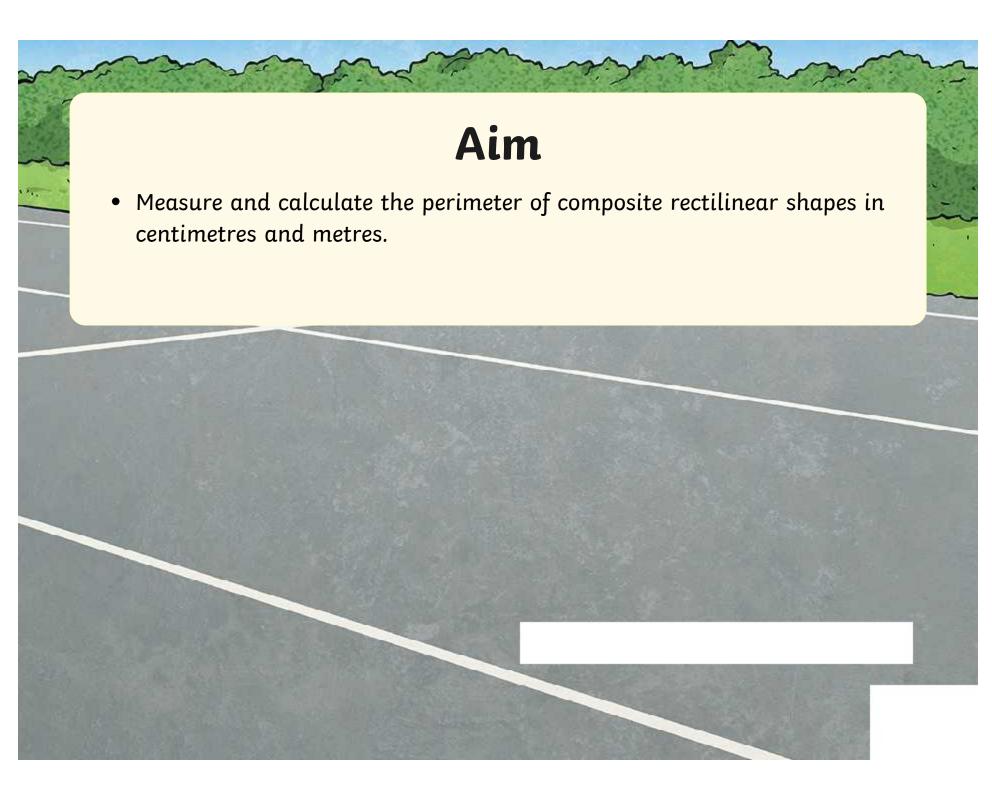
Diving into Mastery Guidance for Educators

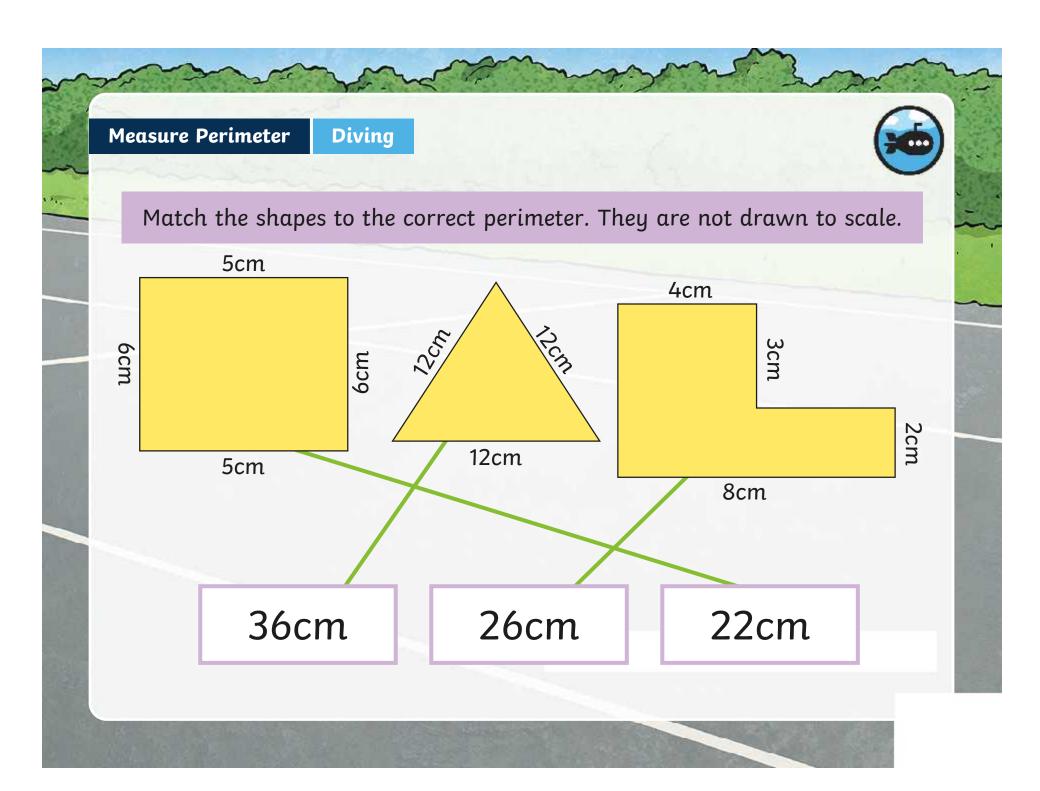
Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

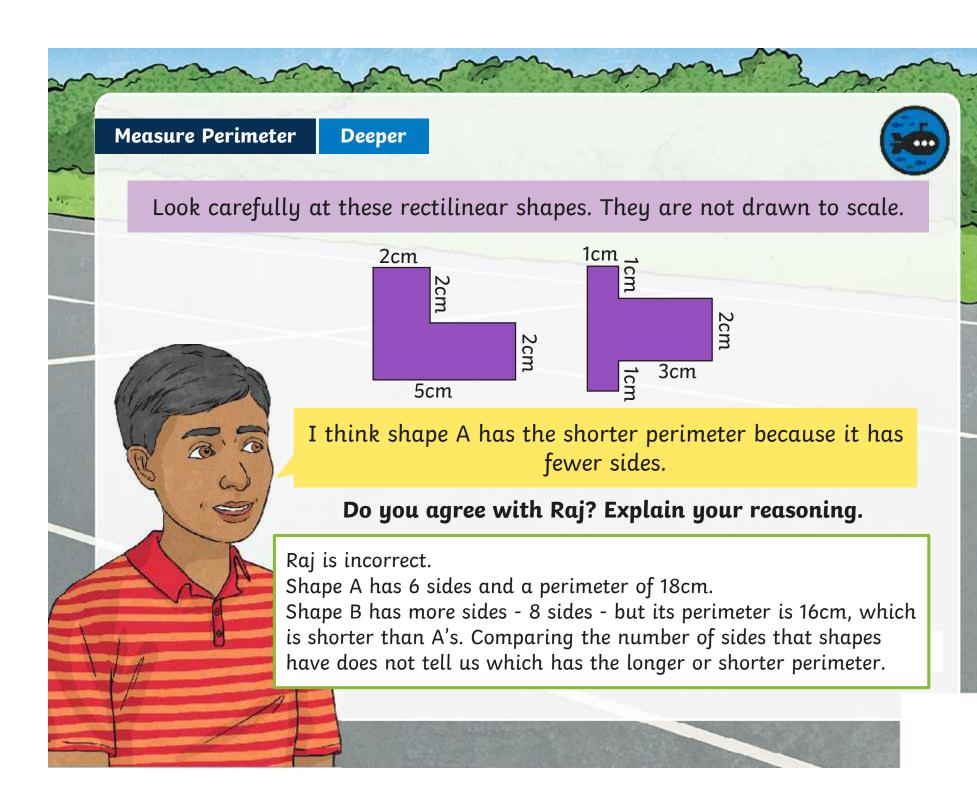


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.









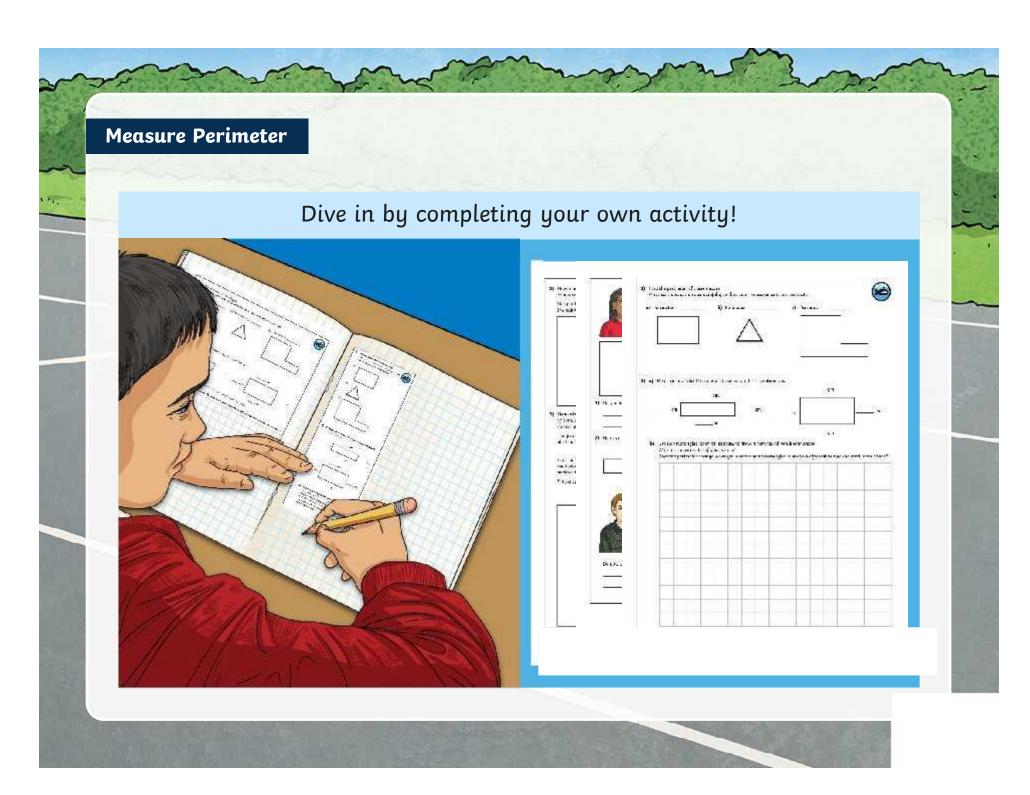
How many different rectangles are there with a perimeter of 44cm?

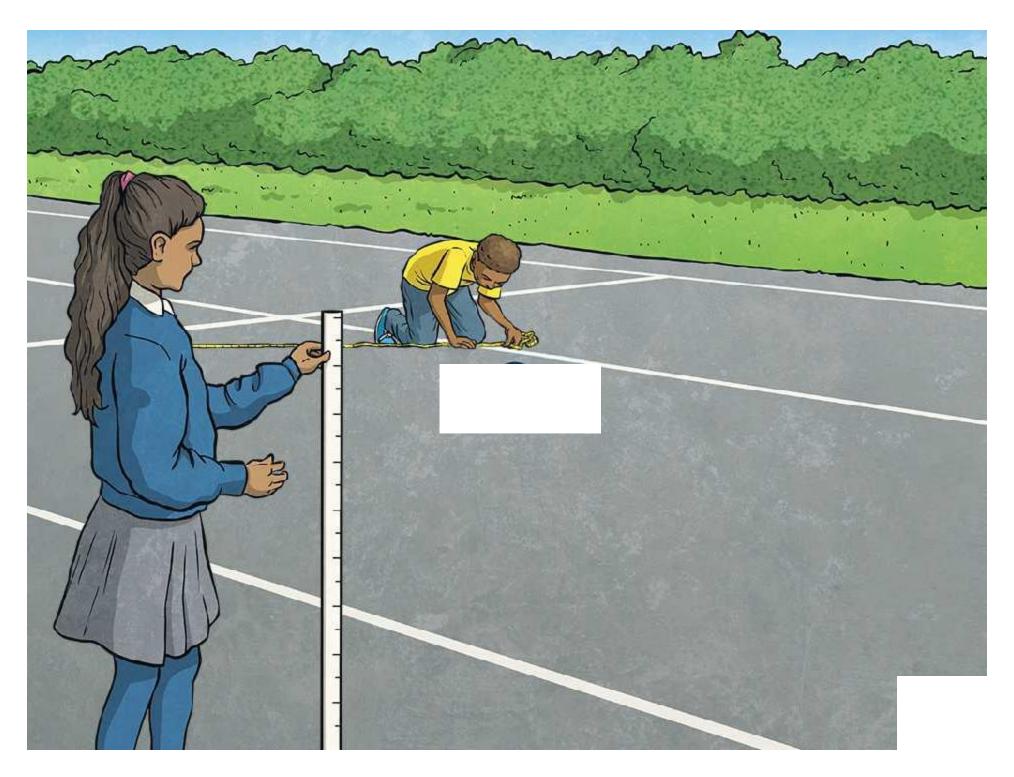
(Each side length needs to be a whole number.) Find a systematic way of recording the lengths of sides.

? Perimeter = 44cm ?

Length	Width
1cm	21cm
2cm	20cm
3cm	19cm
4cm	18cm
5cm	17cm
6cm	16cm
7cm	15cm
8cm	14cm
9cm	13cm
10cm	12cm
11cm	11cm

There are 11 different rectangles (including a square, which is a special kind of rectangle) with a perimeter of 44cm.





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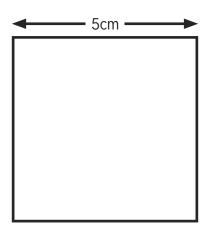
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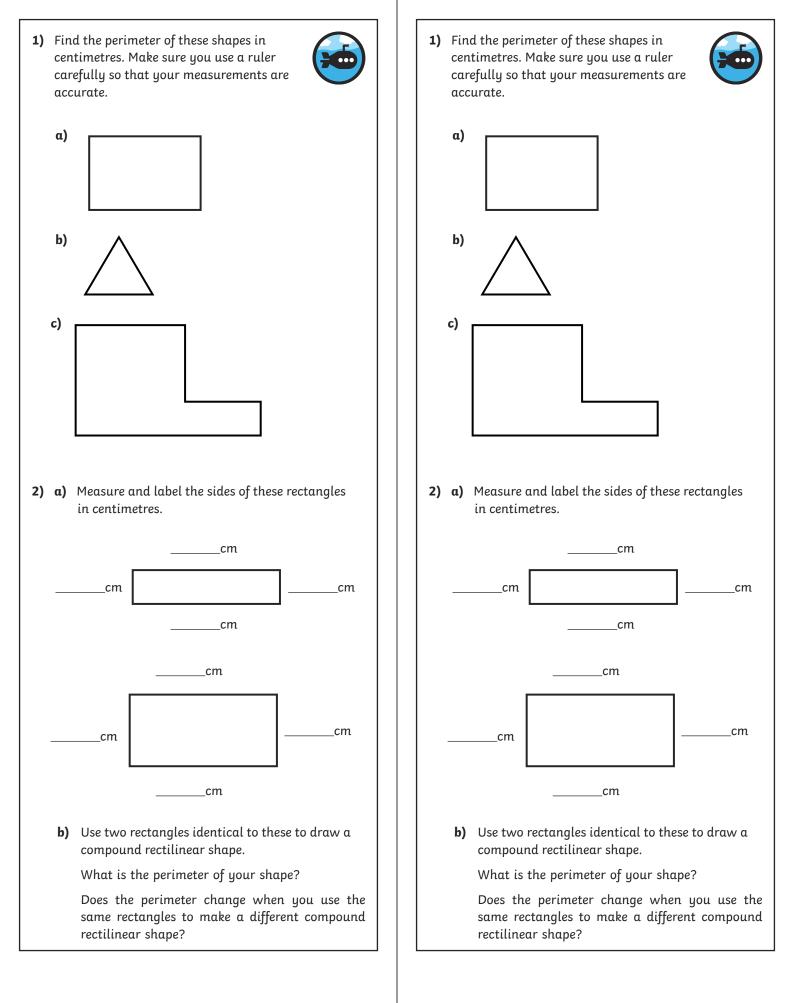
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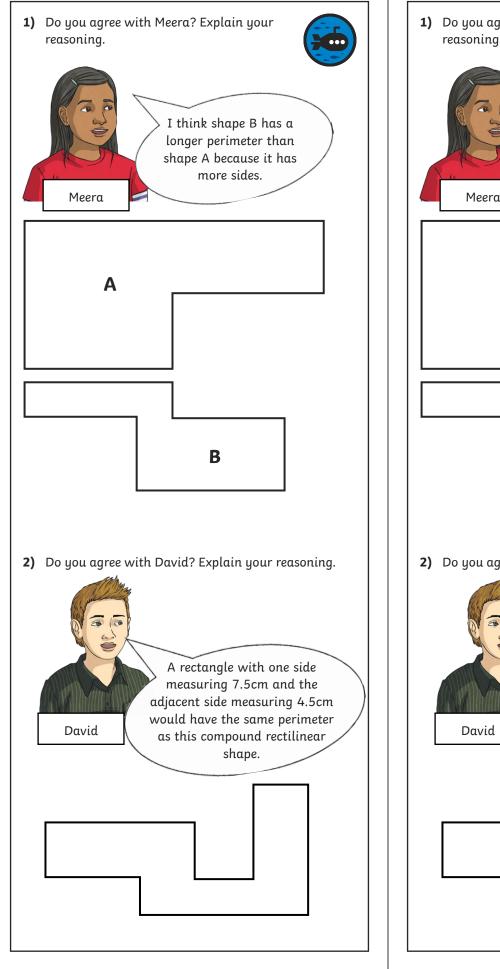
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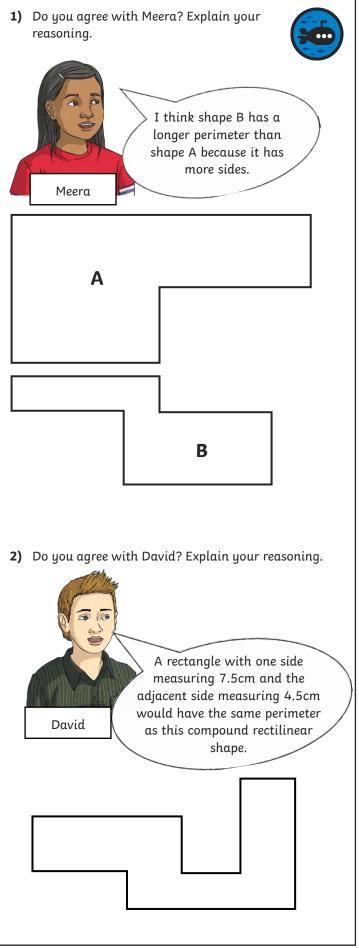
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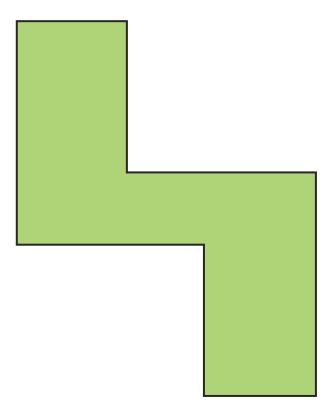
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Do you have to draw all your answers or can you find a systematic way of recording the lengths of the sides?

2) Here is the shape of a field. It is drawn to a scale of 1cm:10m. This means that 1cm on the drawing represents 10m in real life.

The farmer has 250m of wooden fencing and 150m of electric fencing to use around the perimeter of the field.



Find all the possible combinations of fencing in multiples of 5m that the farmer can use to completely enclose the field.

Find a systematic way to record your findings.

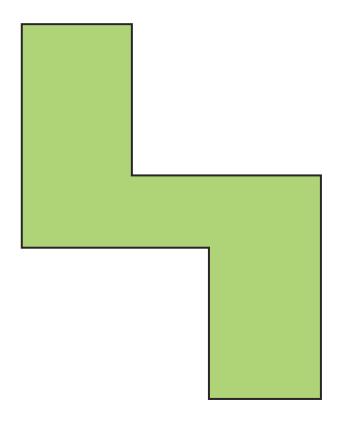
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