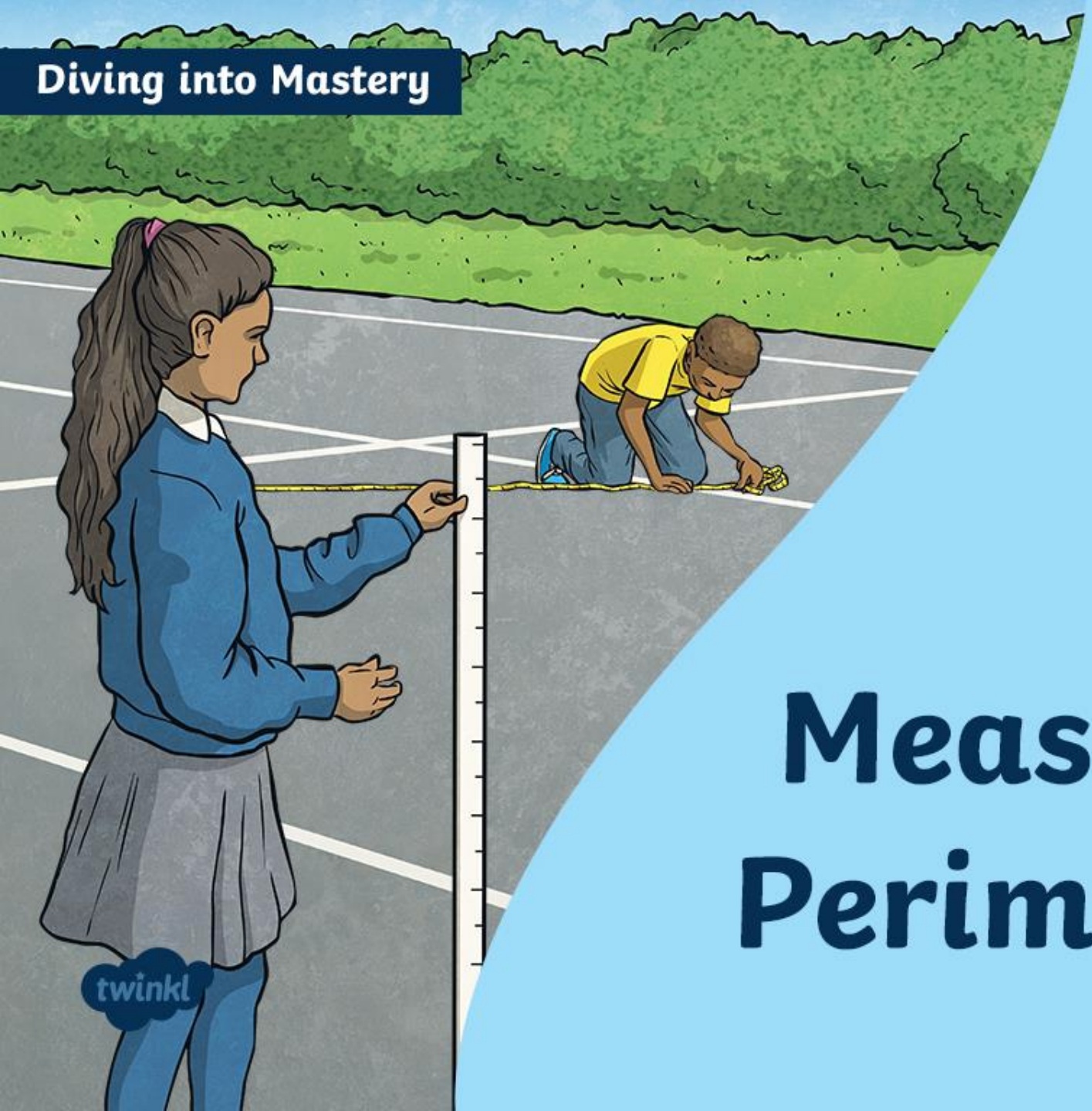
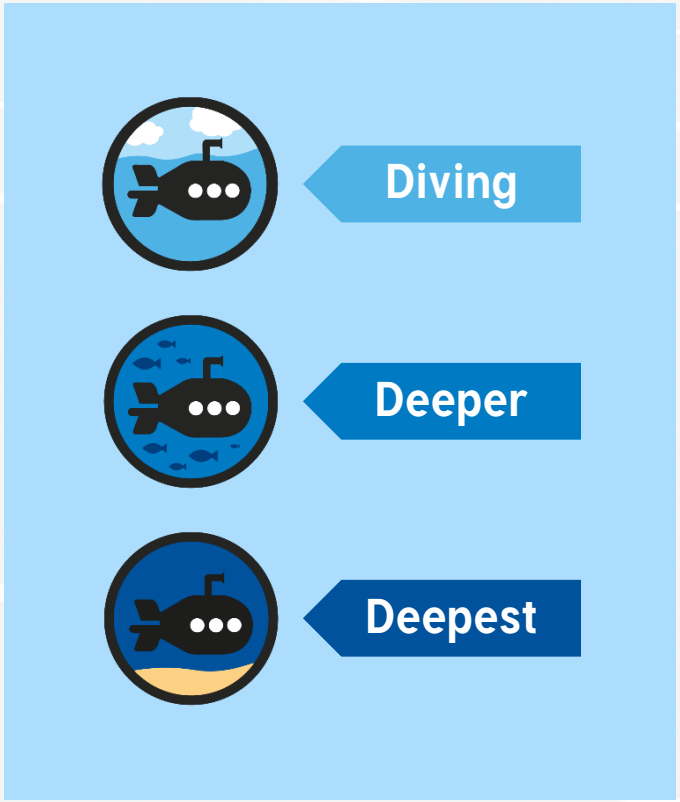
Diving into Mastery



Measure Perimeter

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.

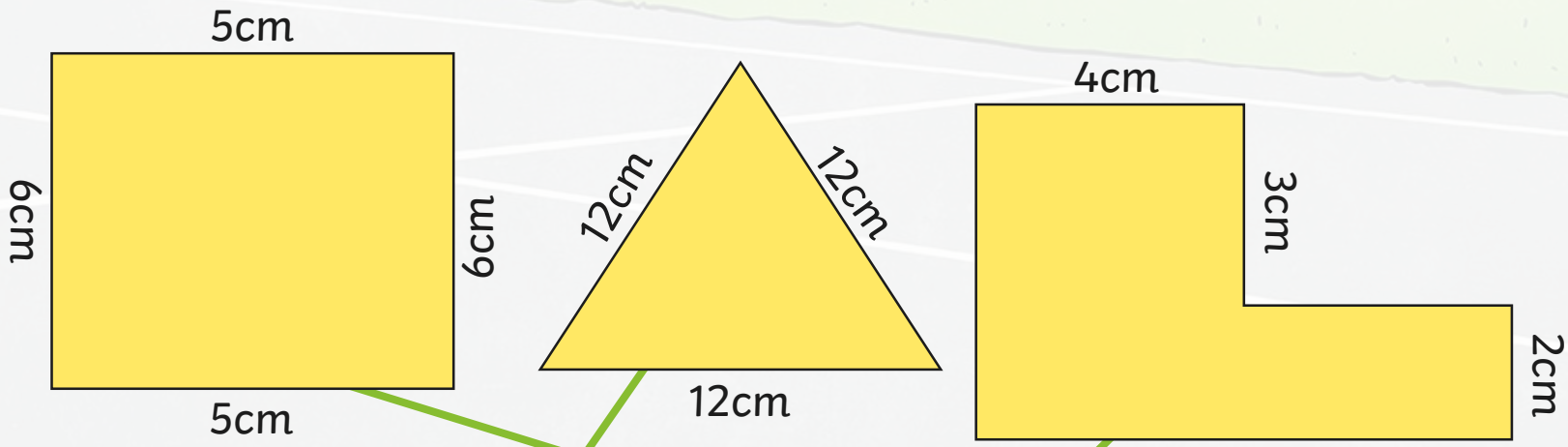
These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Measure Perimeter | **Diving**

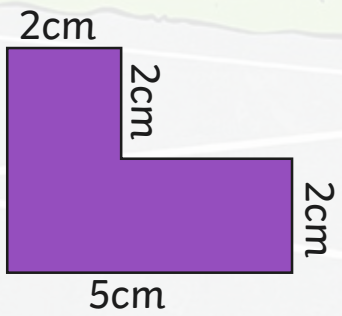
Match the shapes to the correct perimeter. They are not drawn to scale.

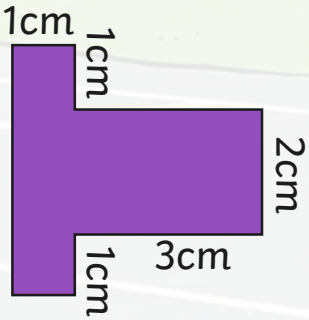


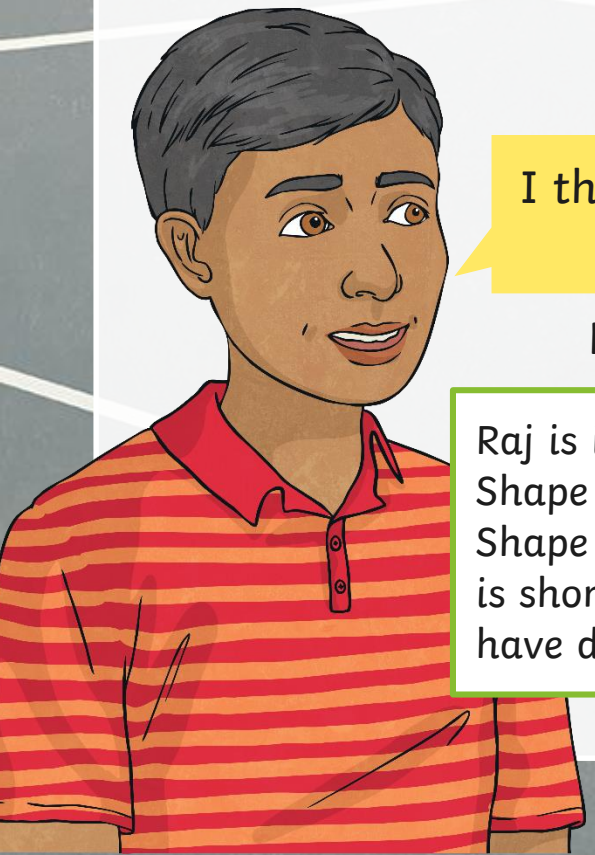
36cm	26cm	22cm

Measure Perimeter | **Deeper**

Look carefully at these rectilinear shapes. They are not drawn to scale.







I think shape A has the shorter perimeter because it has fewer sides.

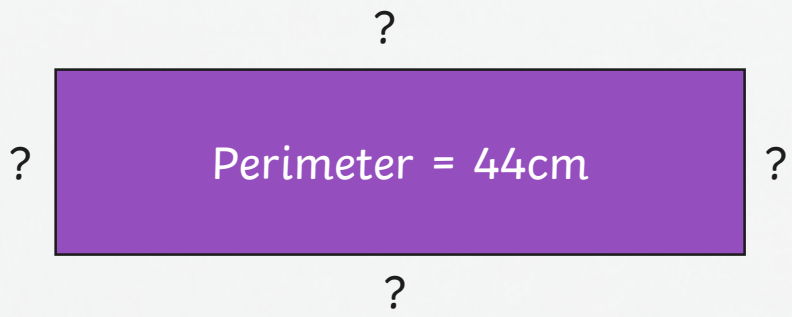
Do you agree with Raj? Explain your reasoning.

Raj is incorrect.
Shape A has 6 sides and a perimeter of 18cm.
Shape B has more sides - 8 sides - but its perimeter is 16cm, which is shorter than A's. Comparing the number of sides that shapes have does not tell us which has the longer or shorter perimeter.

Measure Perimeter | **Deepest**

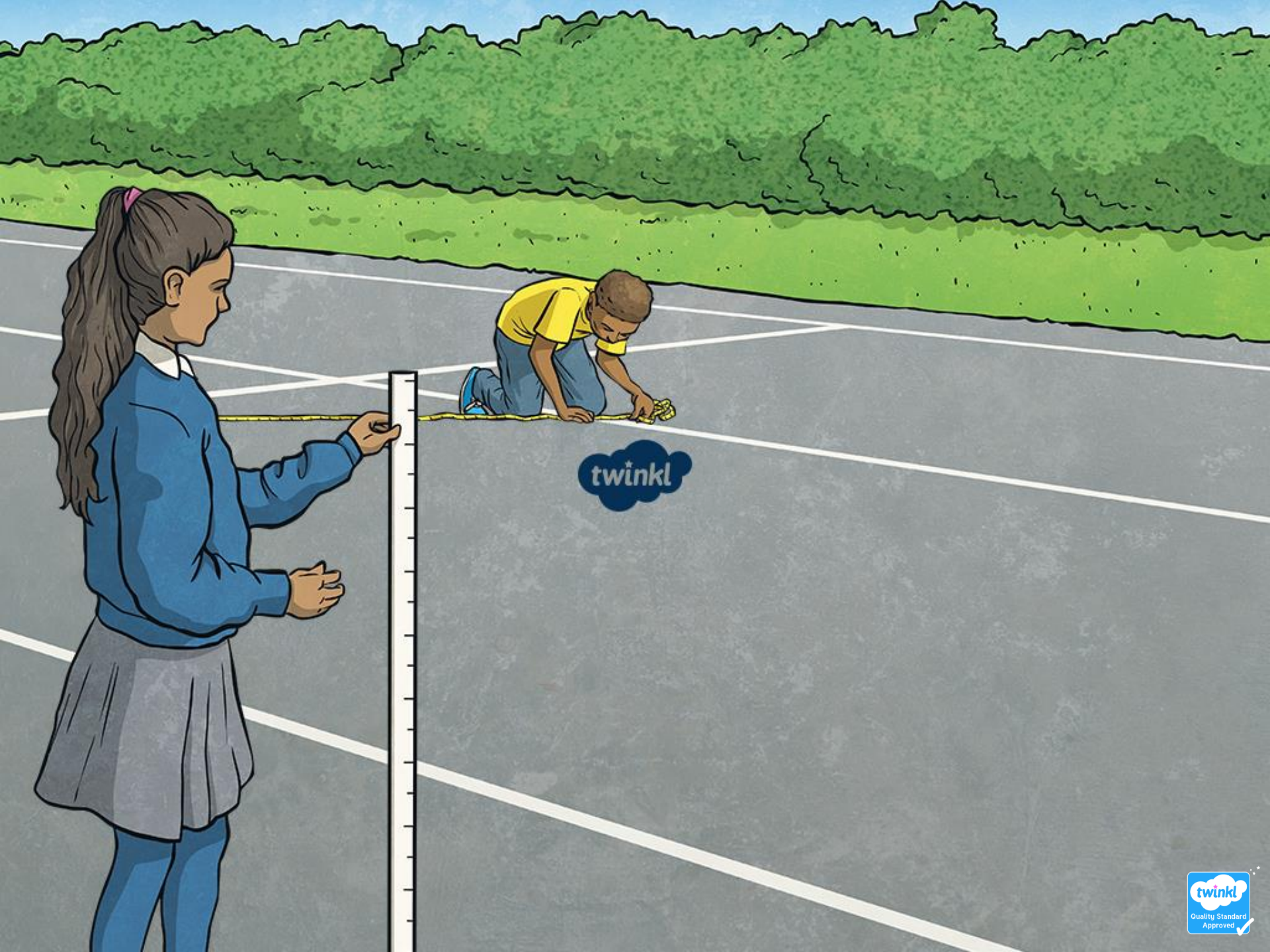
How many different rectangles are there with a perimeter of 44cm?

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



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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