# <u>Discussion Problems</u> Step 2: Calculate Perimeter

### **National Curriculum Objectives:**

Mathematics Year 5: (5M7a) <u>Measure and calculate the perimeter of composite rectilinear</u> <u>shapes in centimetres and metres</u>

#### About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

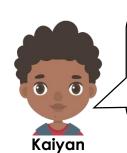
More Year 5 Perimeter and Area resources.

Did you like this resource? Don't forget to review it on our website.



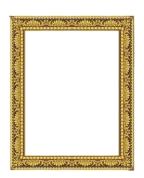
## Calculate Perimeter

1. Kaiyan and Millie are discussing their photo frame and photo.

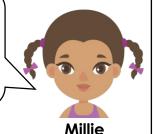


The length of the photo frame is 2 and a half times its width.





If it is put in the frame, the edge of the photo is always 2.25cm away from the inside edge of the frame.

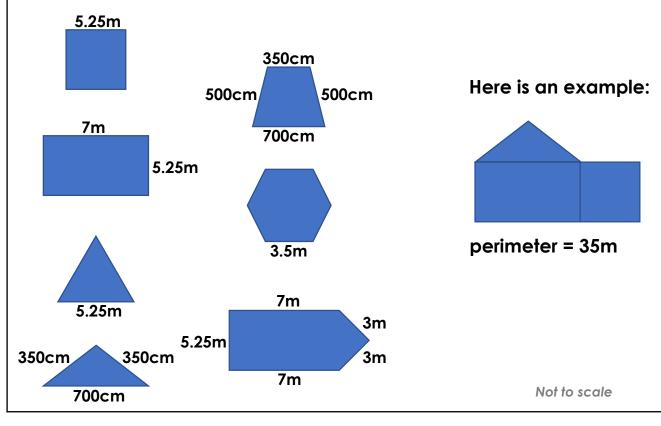


Not to scale

Explore the different pairs of perimeters for the photo and the photo frame.

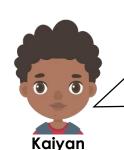
DP

2. Explore the outlines of buildings you can create with a total perimeter between 35m and 40m using the shapes and their perimeters below.



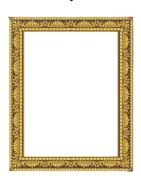
## Calculate Perimeter

1. Kaiyan and Millie are discussing their photo frame and photo.

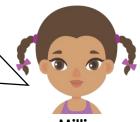


The length of the photo frame is 2 and a half times its width.





If it is put in the frame, the edge of the photo is always 2.25cm away from the inside edge of the frame.



Not to scale

Millie

Explore the different pairs of perimeters for the photo and the photo frame. Various answers, for example:

frame = 25cm x 10cm, photo = 20.5cm x 5.5cm

DP

2. Explore the outlines of buildings you can create with a total perimeter between 35m and 40m using the shapes and their perimeters below. Various answers, for example:

