Discussion Problems
Step 1: Measure Perimeter

Teaching note: Due to variations in printer settings, measurements may differ from those given in the answers. You may also wish to provide additional 1cm x 1cm squared paper for Q1 and Q2.

National Curriculum Objectives:

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

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.

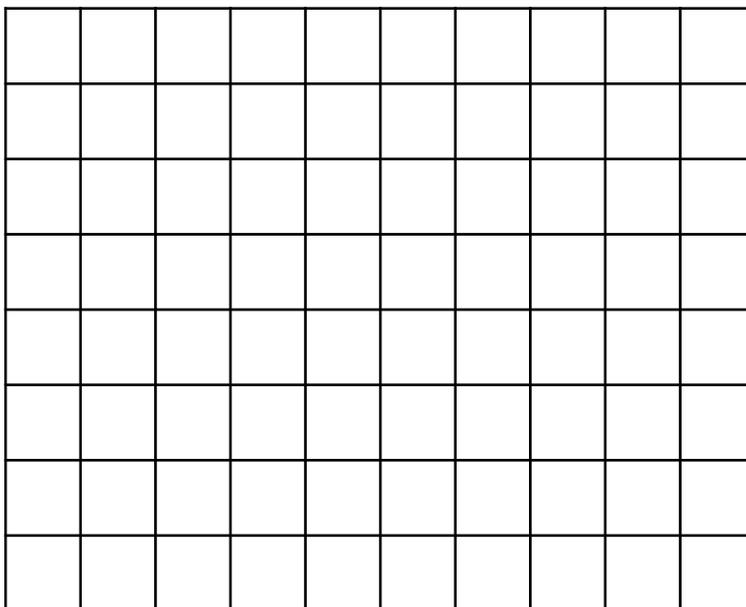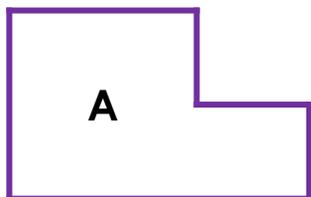We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 5 Perimeter and Area resources.

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

Measure Perimeter

1. Suki is investigating the perimeter of different rectilinear shapes.

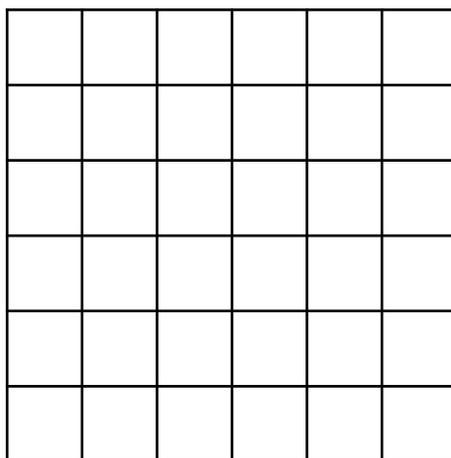> I need to draw a shape that has twice the perimeter of shape A.

A

DP

Explore the different rectilinear shapes that you could draw to help Suki.
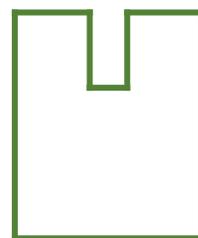
2. Measure the perimeter of the shapes below and complete the inequality statement.

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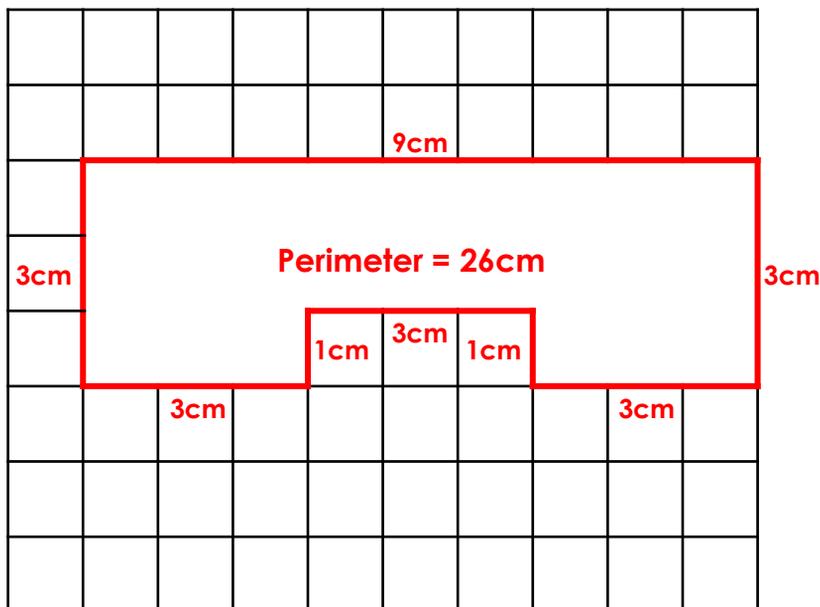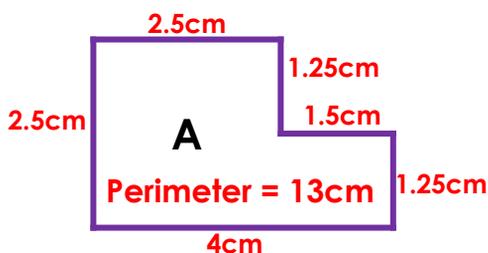**Is there more than one solution?**

DP

Measure Perimeter

1. Suki is investigating the perimeter of different rectilinear shapes.

I need to draw a shape that has twice the perimeter of shape A.

Various answers, for example:

2.5cm

1.25cm

2.5cm **A** 1.5cm

Perimeter = 13cm 1.25cm

4cm

9cm

3cm **Perimeter = 26cm** 3cm
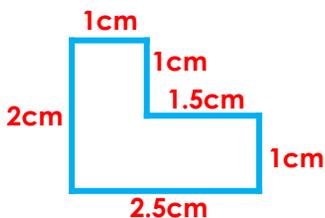
1cm 3cm 1cm

3cm 3cm

Explore the different rectilinear shapes that you could draw to help Suki.
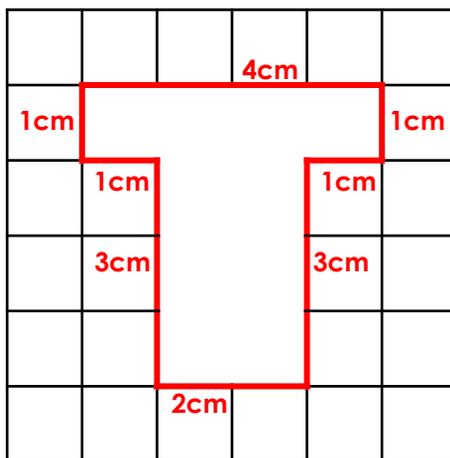
DP

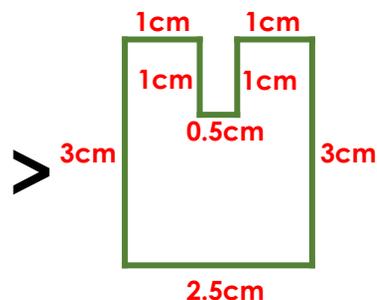**2. Measure the perimeter of the shapes below and complete the inequality statement.**

Perimeter = 9cm **Perimeter = 16cm** **Perimeter = 13cm**

1cm

1cm

2cm 1.5cm

1cm

2.5cm

4cm

1cm 1cm

1cm 1cm

3cm 3cm

2cm

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>

1cm 1cm

1cm 1cm

0.5cm

3cm 3cm

2.5cm

Is there more than one solution?

Various answers, one example is given above.

DP