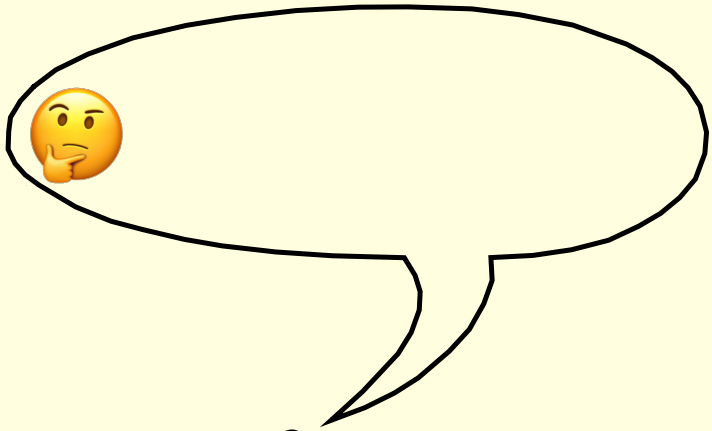
Week 2 - Day 1

Unit - Measurement

Length and Perimeter

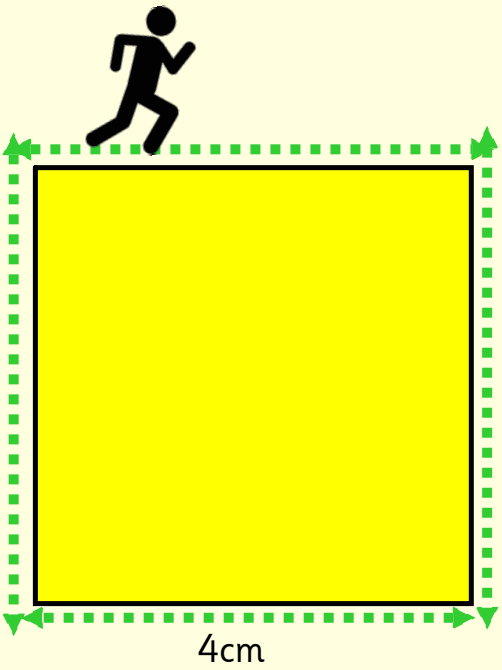
I can offer conjectures about the difference between area and perimeter.



What is the perimeter?
Write your own conjecture about finding the perimeter in a speech bubble

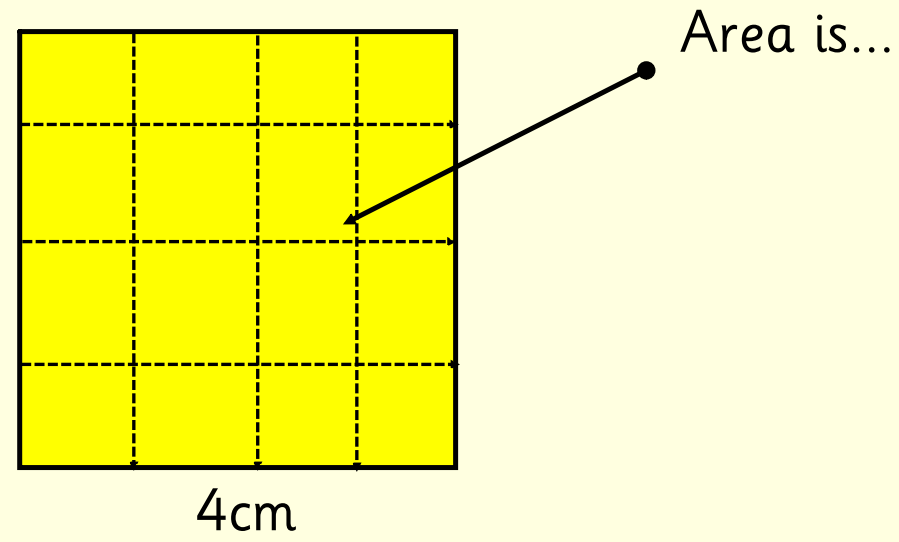
The perimeter is the distance around the outside of a 2D object.

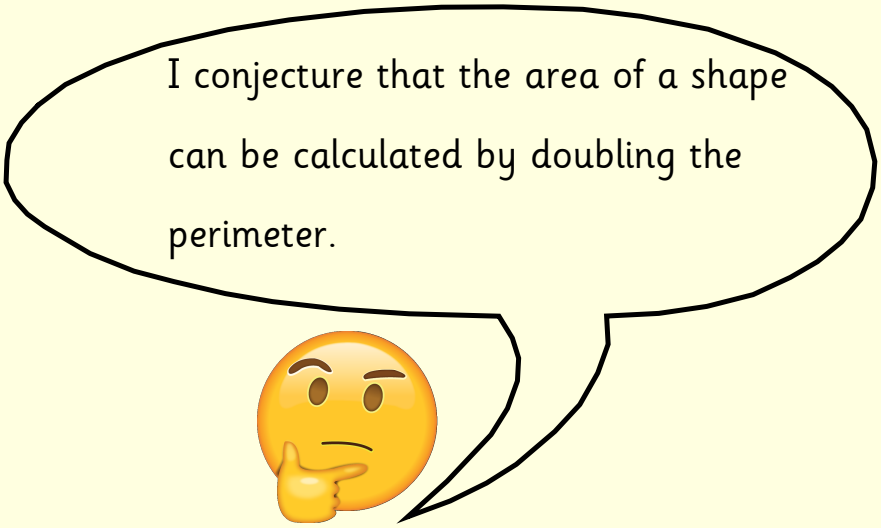
Imagine you are walking around the edge of the shape.



🤔 How do we work out the perimeter?

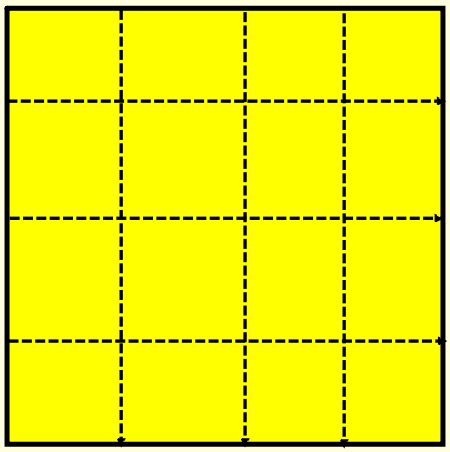
https://central.espresso.co.uk/espresso/modules/m2_area/video_pages/video_area.html?source=search-all-all-all-all&source-keywords=what%20is%20the%20area





Write your own conjecture about calculating the area of shapes.

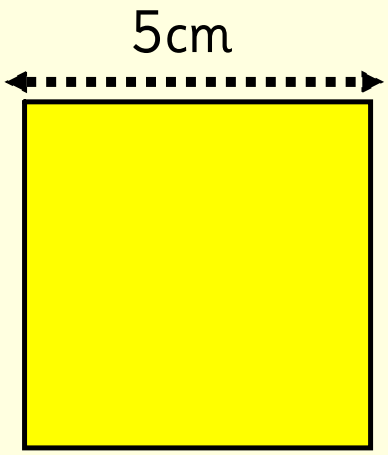
https://central.espresso.co.uk/espresso/modules/m2_area/video_pages/video_area.html?source=search-all-all-all-all&source-keywords=what%20is%20the%20area



4cm

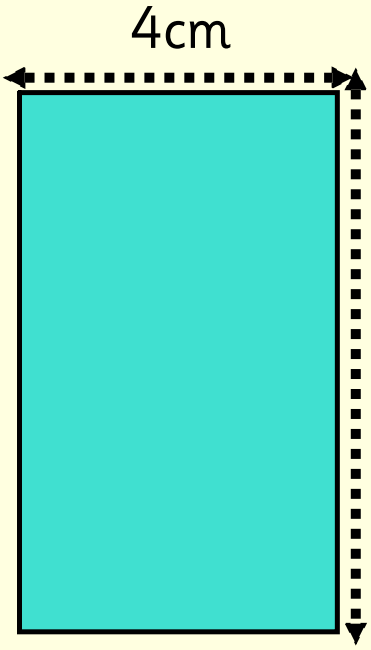
🤔 How do we work out the perimeter?

Problem of the day:



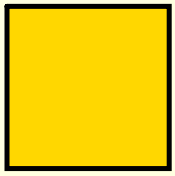
Perimeter:

Area:

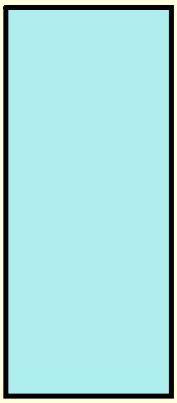


Perimeter:

Area:



Reasoning



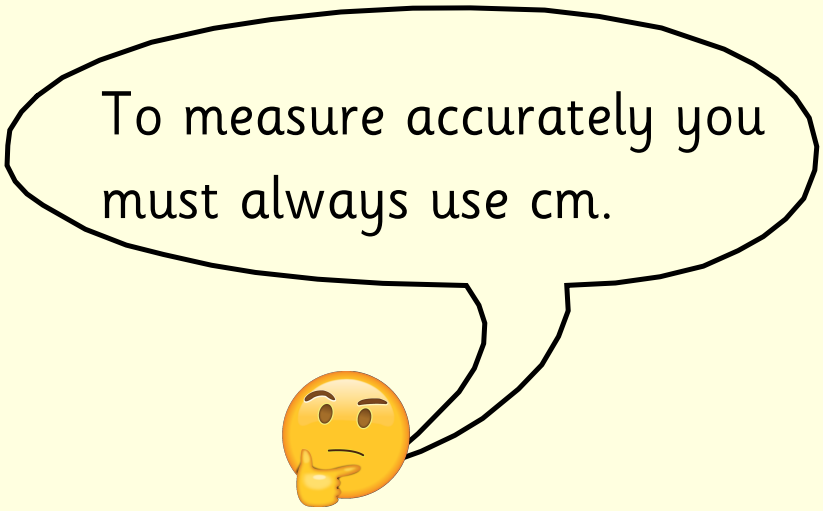
You have to measure all of the sides to find the area and perimeter of these shapes.

True or false.

Convince me

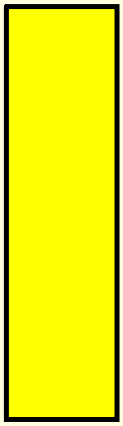
Day 2

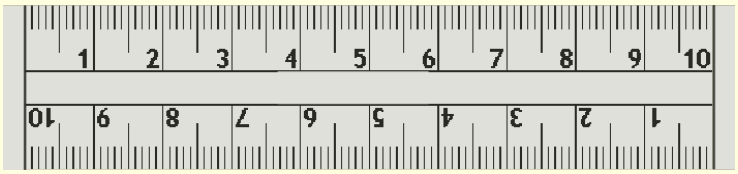
I can effectively calculate the perimeter of rectilinear shapes.



Agree/Disagree? Explain.

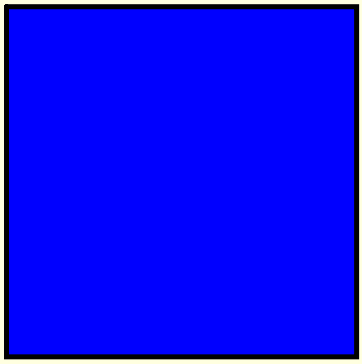
How can we measure **accurately**?





Perimeter:

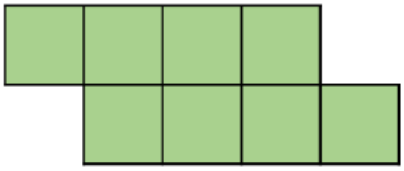
Perimeter:



Challenge:

Here is a shape made from centimetre squares.

Find the perimeter of the shape.



Can you use 8 centimetre squares to make different shapes?

Find the perimeter of each one.

Support: Use the squared paper to cut out your different shapes using only 8 squares. Find the perimeter of each shape.

Extension:

All of the shapes made with 8 cm squares will have the same area.

True or false?

Explore and convince me...

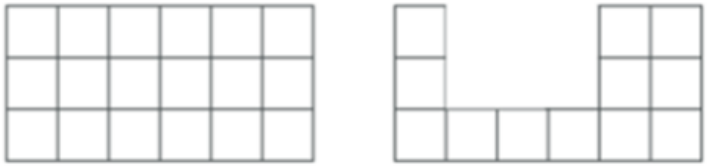
Day 3

I can effectively calculate the area and perimeter of rectilinear shapes.

Problem of the day

What can you say about these two shapes?

= 1cm



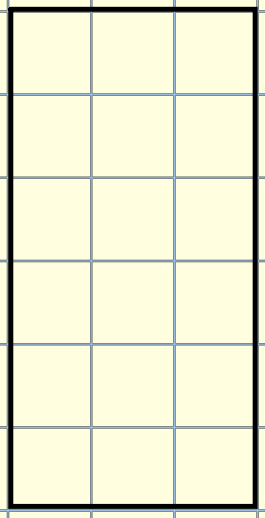
What is the area of each one? What is the perimeter of each one?

Finding the area:

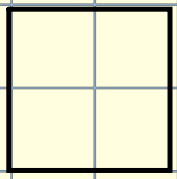
Methods:

1.

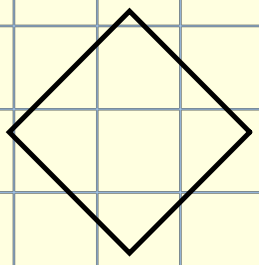
2.



Area:

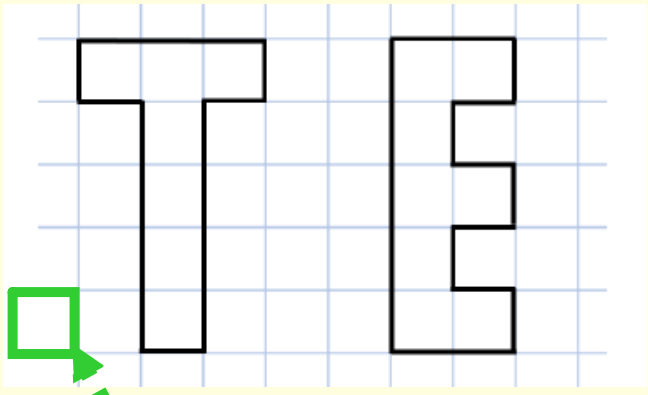


Area:



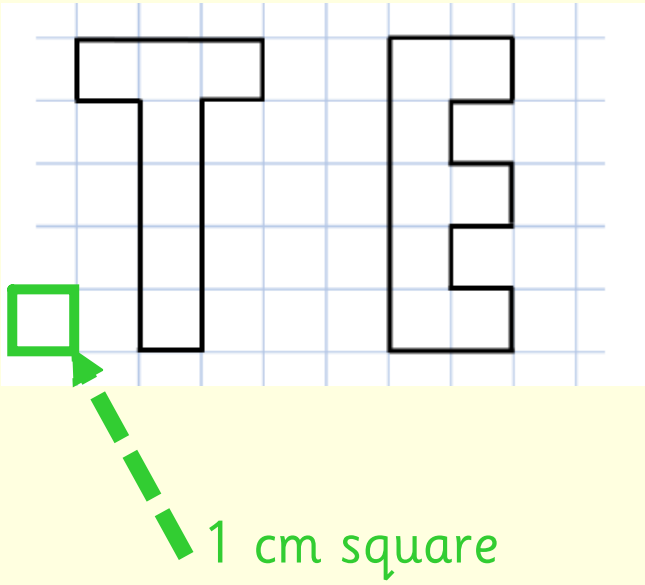
Area:

Problem of the day



1 cm square

What is the perimeter and area of these shapes?



Explore:

1. Write your initials using rectilinear shapes on squared paper.

2. Can you predict which will have the largest perimeter and area? Give reasons for your choices.

3. Find the perimeter and area of these shapes using your most efficient method.

Day 4

I can solve problems including finding area and perimeter, sharing my thinking.

Problem of the day (all)

Always, Sometimes, Never

When all the sides of a rectangle are odd numbers, the perimeter is even.

Prove it.

🤔 Let's explore this.

Always, Sometimes, Never

When all the sides of a rectangle are odd numbers, the perimeter is even.

Prove it.

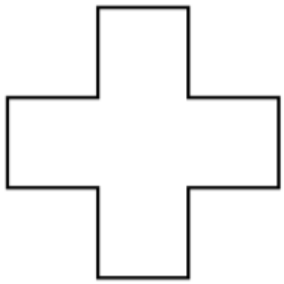
What did you find in your exploration?

Always, sometimes or never?

Explain your thinking.

Challenge:

Here is a rectilinear shape. All the sides are the same length and are a whole number of centimetres.



All: What could the perimeter of this shape be? How many possibilities can you find?

Challenge:

Which of these lengths could be the perimeter of the shape?

48 cm, 36 cm, 80 cm, 120 cm, 66 cm

Give reasons for your choices.

DAY 5

Assessment lesson