



**Year 6
Maths
Friday (Lesson 5)**



I can find the area and perimeter of basic shapes.

Success criteria:

- I know how to find the area
- I know how to find the perimeter.
- I can split a compound shape into different rectangles.
- I can find missing sides by looking carefully at the measurements provided.



Flashback 4

Year 6 | Week 7 | Day 5



- 1) 5 miles is about 8 km
About how many miles is 40 km?
- 2) $n = 12$. Work out $5n - 2$
- 3) Write 80% as fraction in its simplest form.
- 4) Which of these numbers are prime?
2 5 7 9 26

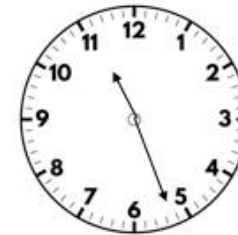


Flashback 4

Year 6 | Week 7 | Day 5

1) 5 miles is about 8 km
About how many miles is 40 km?

25



2) $n = 12$. Work out $5n - 2$

58

3) Write 80% as fraction in its simplest form.

$\frac{4}{5}$

4) Which of these numbers are prime?

2 5 7 9 26

2, 5 and 7



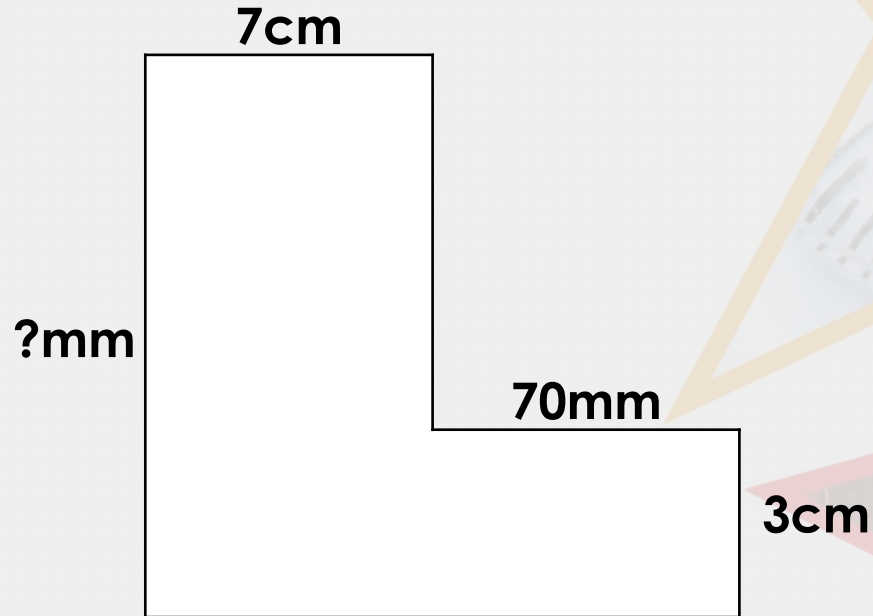
Yesterday we looked at finding the area and perimeter of rectangular shapes?

What is area?

What is perimeter?

Varied Fluency 1

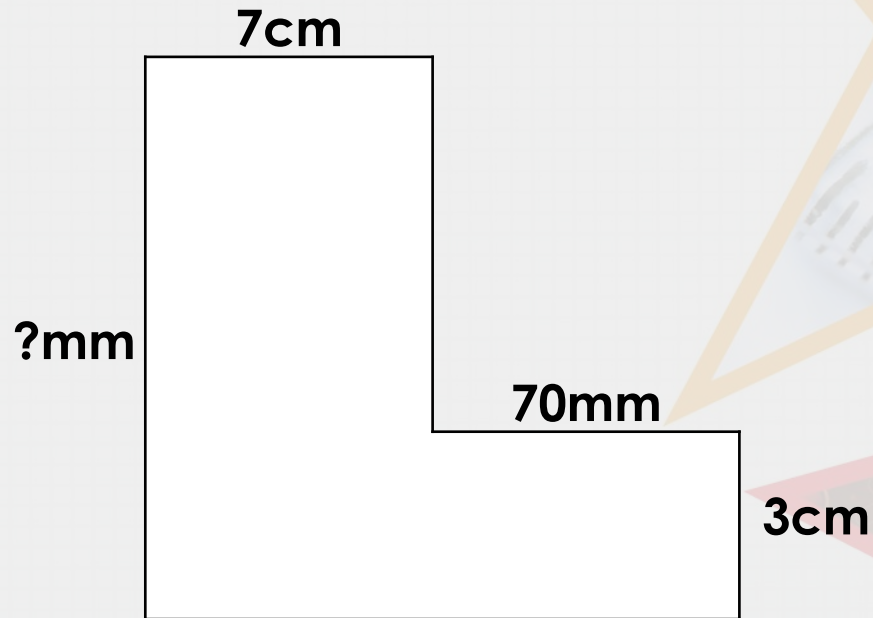
The area of this shape is 112cm^2 .
Work out the missing width.



Not to scale

Varied Fluency 1

The area of this shape is 112cm^2 .
Work out the missing width.

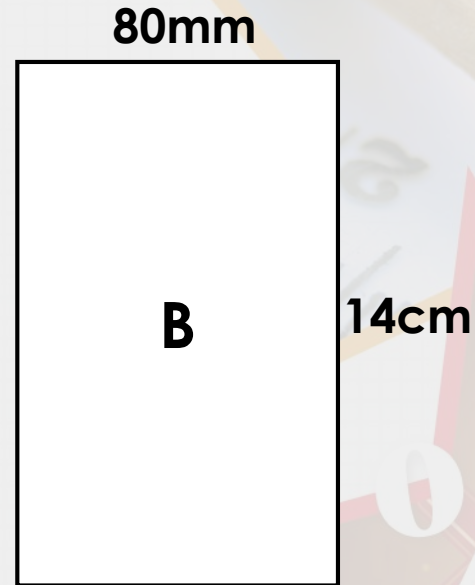
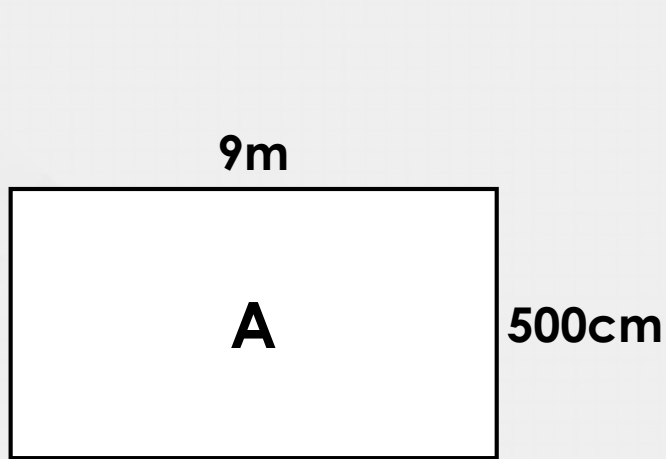


130mm

Not to scale

Varied Fluency 3

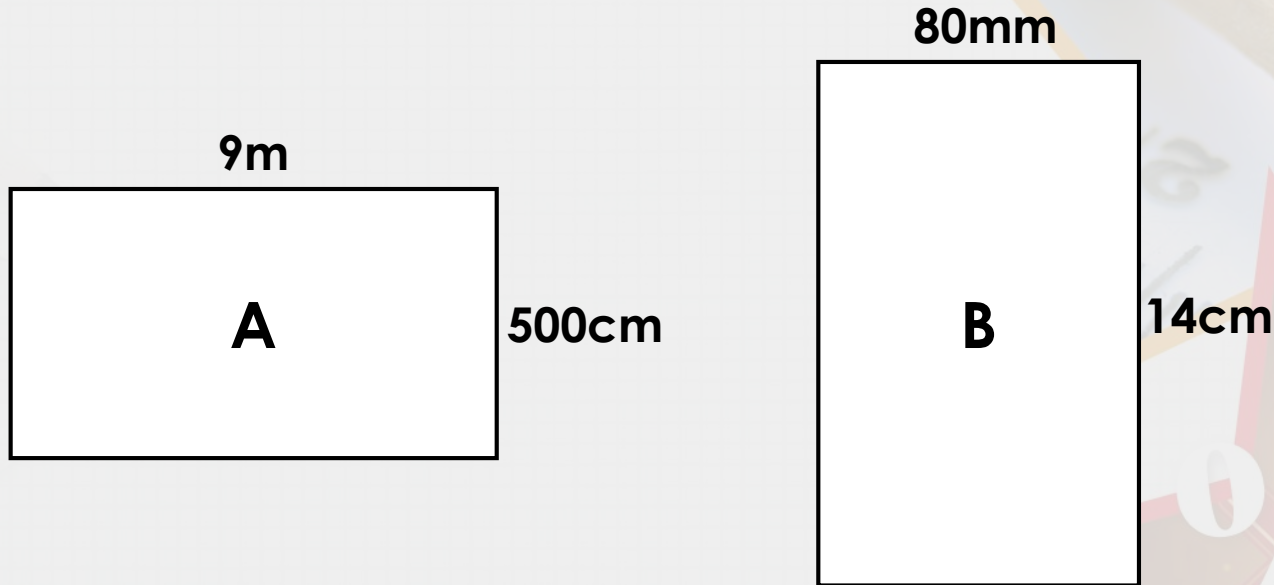
Using the correct formulae, calculate the area and the perimeter of the shapes below.



Not to scale

Varied Fluency 3

Using the correct formulae, calculate the area and the perimeter of the shapes below.



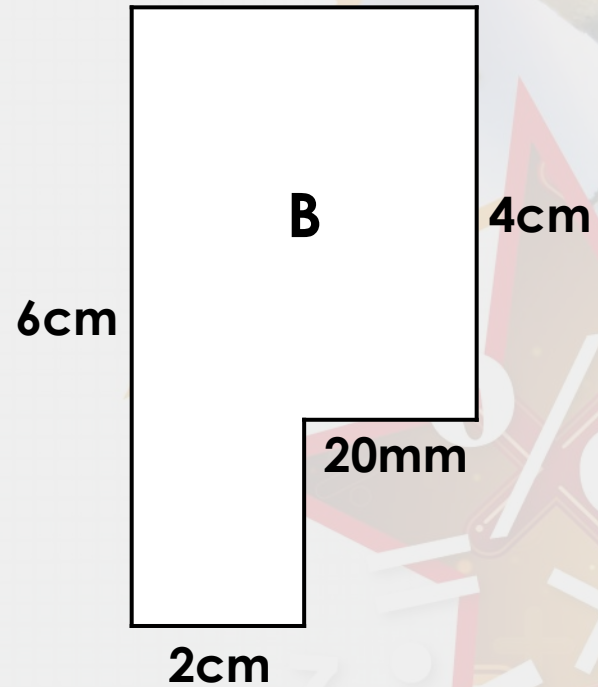
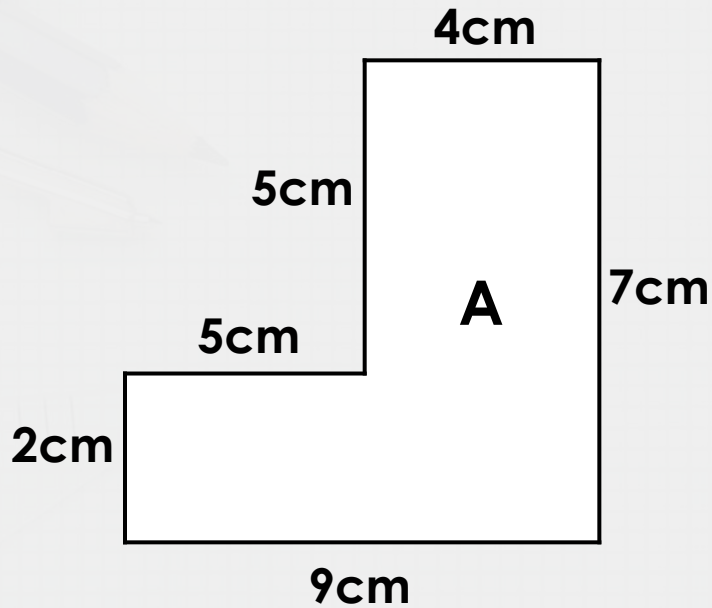
A. Area = $9\text{m} \times 5\text{m} = \underline{45\text{m}^2}$, Perimeter = $9\text{m} + 9\text{m} + 5\text{m} + 5\text{m} = \underline{28\text{m}}$

B. Area = $14\text{cm} \times 8\text{cm} = \underline{112\text{cm}^2}$, Perimeter = $14\text{cm} + 14\text{cm} + 8\text{cm} + 8\text{cm} = \underline{44\text{cm}}$

Not to scale

Varied Fluency 4

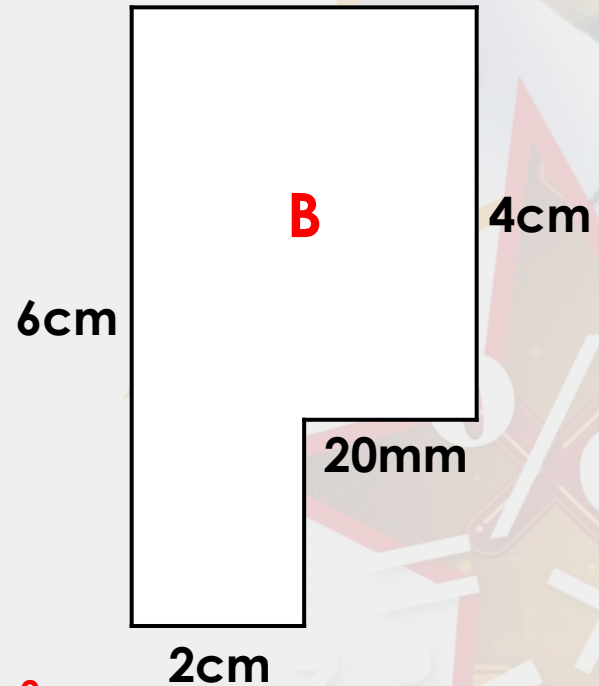
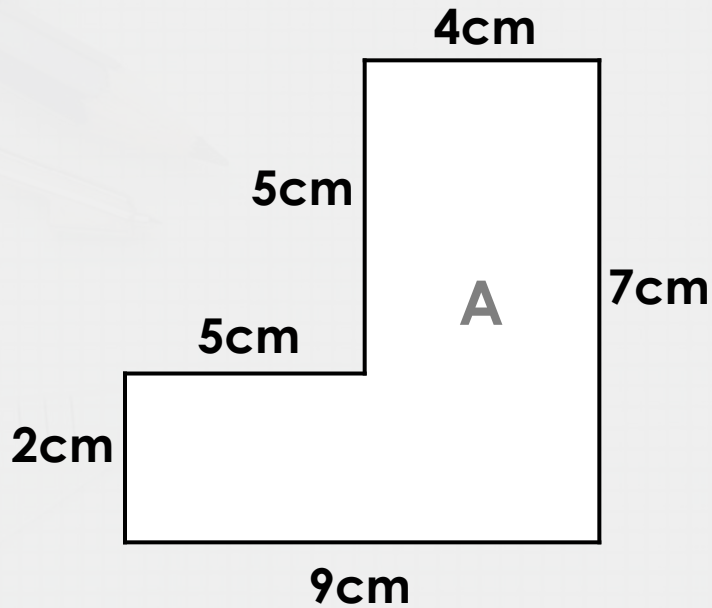
Which shape has an area and a perimeter that equal the same number?



Not to scale

Varied Fluency 4

Which shape has an area and a perimeter that equal the same number?



B
Area = 20cm²
Perimeter = 20cm

Not to scale

Problem Solving 2

A shape has a perimeter of 54cm.

**Perimeter =
54cm**

What is the largest area the shape could have?

What is the smallest area the shape could have?

Not to scale

Problem Solving 2

A shape has a perimeter of 54cm.

Perimeter =
54cm

What is the largest area the shape could have?

$$13\text{cm} \times 14\text{cm} = 182\text{cm}^2$$

What is the smallest area the shape could have?

$$26\text{cm} \times 1\text{cm} = 26\text{cm}^2$$

Not to scale



Click on this video to further support your understanding of this topic.

<https://vimeo.com/430339457>



Now work through the activities on the website.



Review

- Can you review your learning?
- Can you explain to others how to find area and perimeter of rectangles?

