



THIRD SPACE  
LEARNING

# Perimeter and Area

To know how to calculate perimeter  
from given information



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**Key Vocabulary:**

Composite shape
Composite rectilinear shape
Composite shape

**Sentence Stems:**

A rectilinear shape is a shape where all the sides meet at right angles.

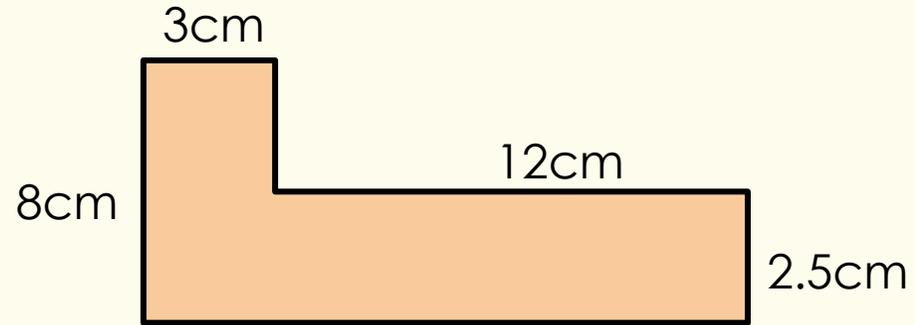
The perimeter is the distance around a 2-D shape.



To know how to calculate perimeter from given information

**In Focus:**

**What is the perimeter of this shape?**



**A** 25.5cm

**C** 51cm

**B** 40.5cm

**D** 46cm



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## Success Criteria

- I can find missing lengths in a composite rectilinear shape
- I can calculate the perimeter of a composite rectilinear shape
- I can draw shapes with a given perimeter

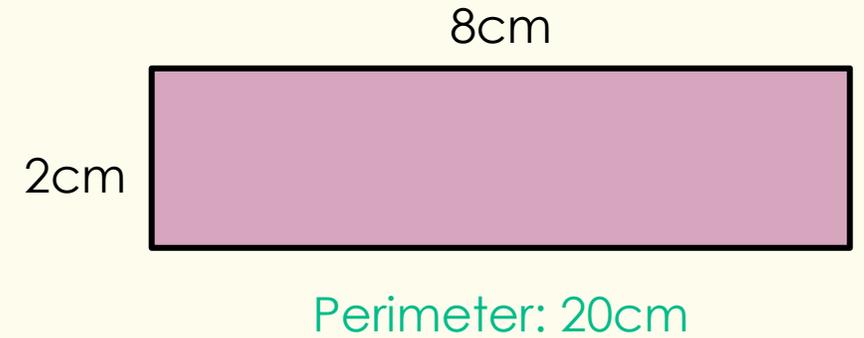
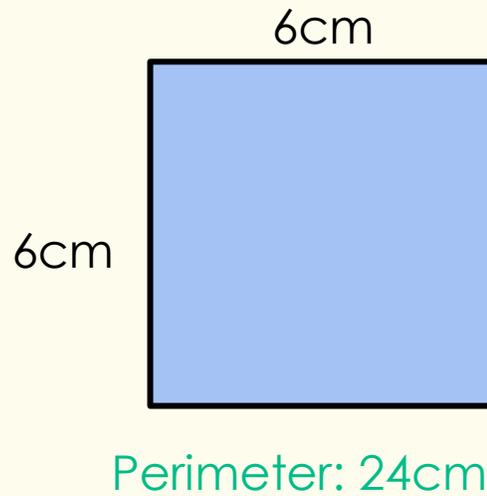
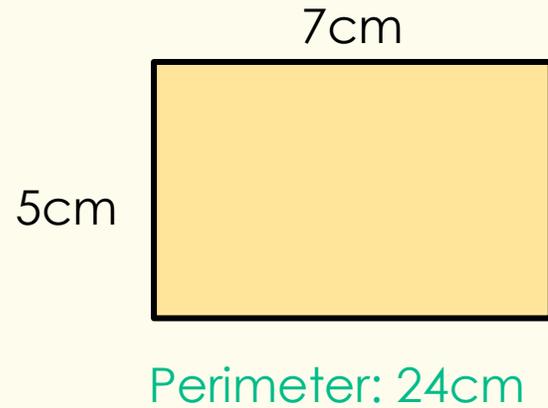


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**Starter:**

**Which of the rectangles is the odd one out?**

Prove your answer is correct.

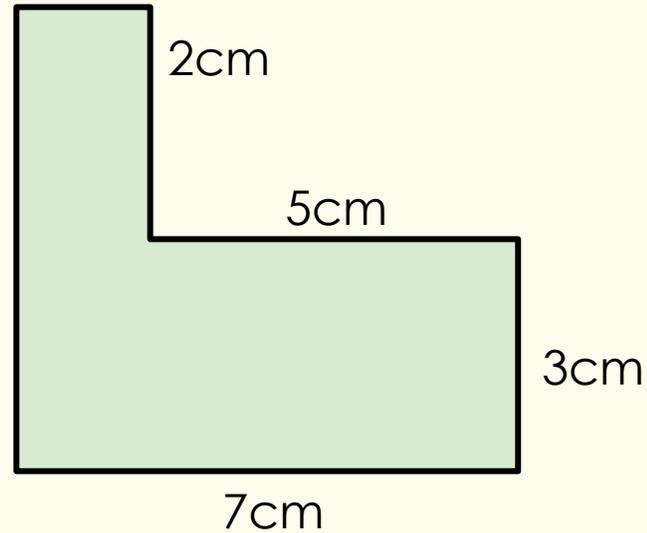


Answers



To know how to calculate perimeter from given information

Explain **how** to find the perimeter of these shapes.



First you need to find the missing lengths, then you can calculate the perimeter.

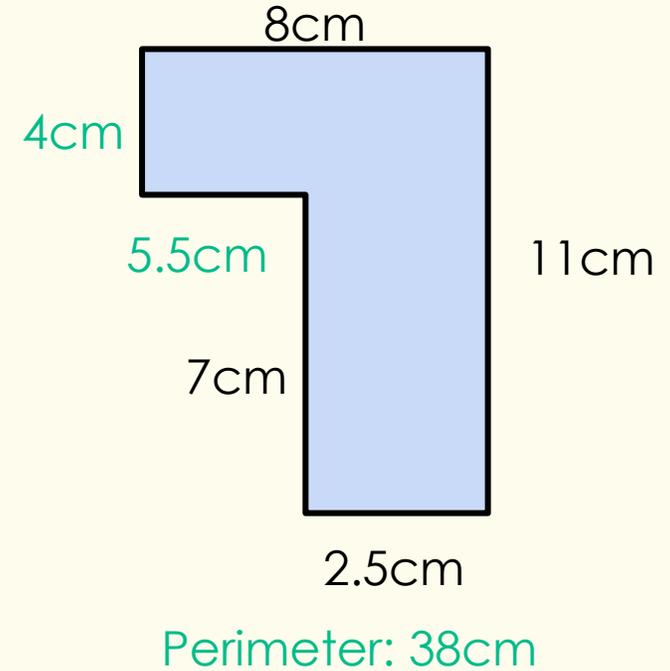
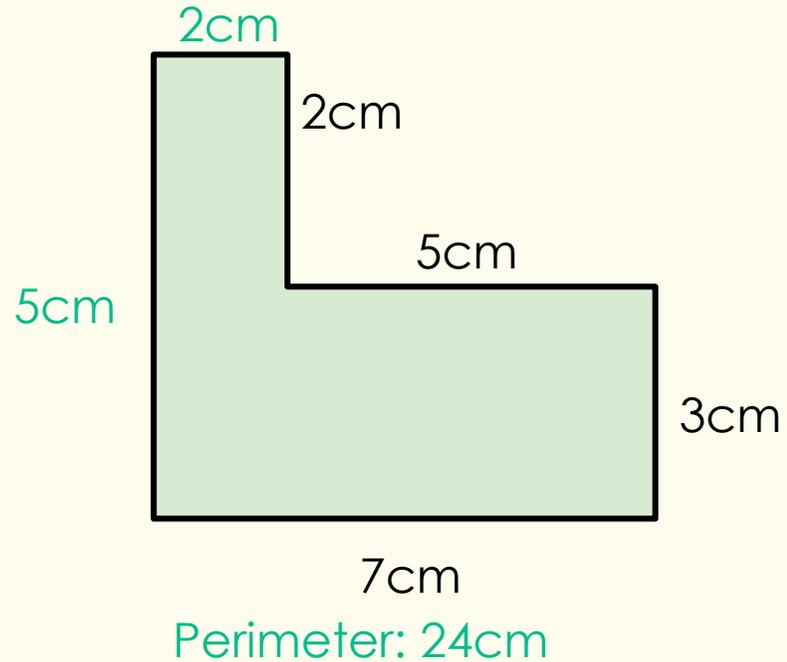
Answers



To know how to calculate perimeter from given information

**Guided Practice:**

**Calculate the perimeters of these shapes.**

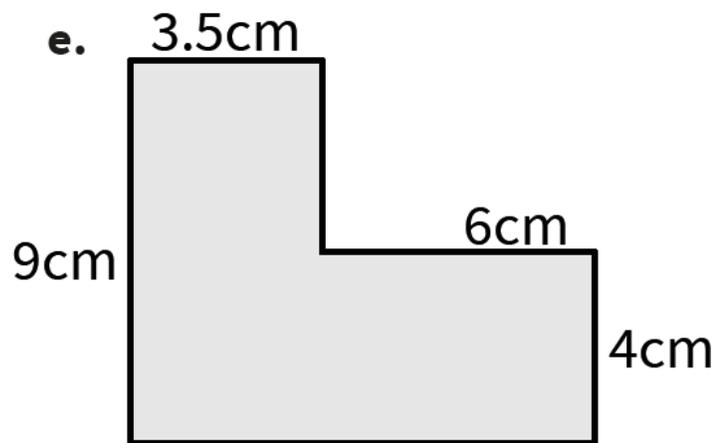
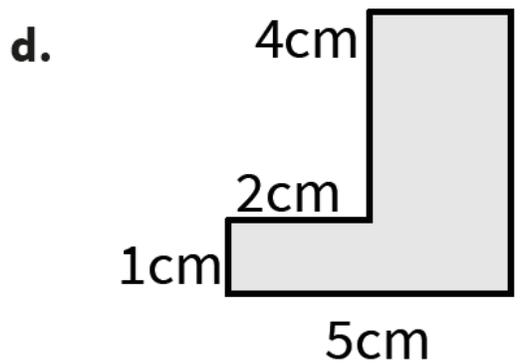
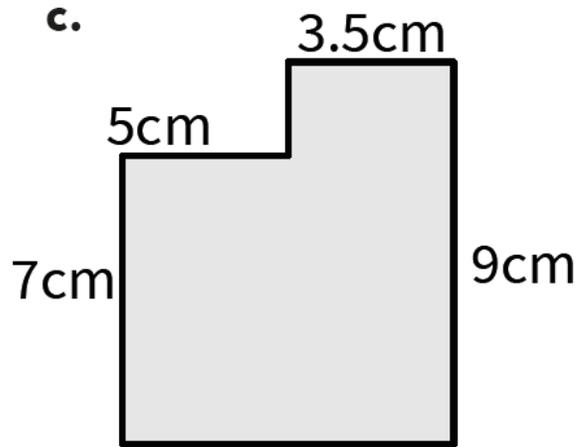
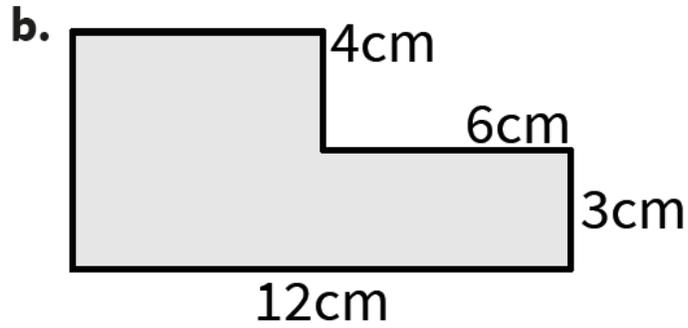
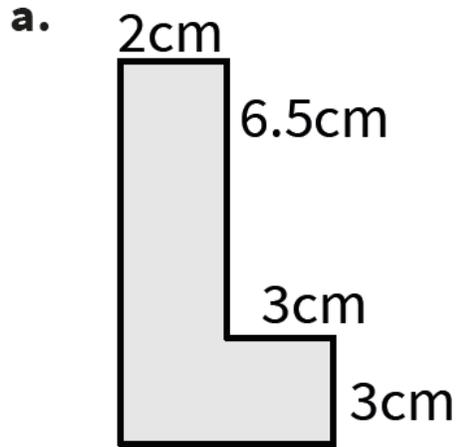


Answers

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**Independent Practice:**

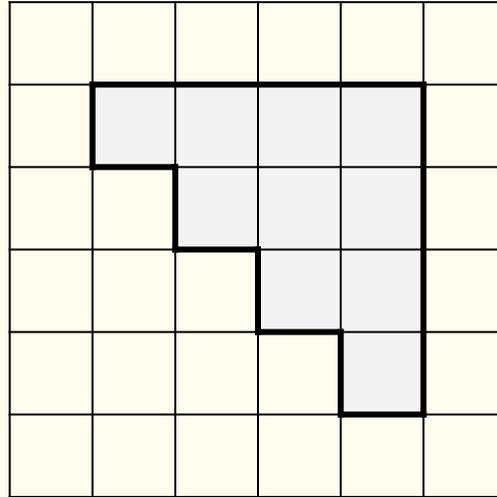
1. Find the perimeters of these shapes.



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**Guided Practice:**

The astronaut is given this information about a shape.



Each square has an area of  $9\text{cm}^2$ .



They say, "Each square is  $9\text{cm}$  by  $9\text{cm}$ . The perimeter is  $144\text{cm}$ ."

**Do you agree?**

If the area of each square is  $9\text{cm}^2$ , each square will measure  $3\text{cm}$  by  $3\text{cm}$ .

The perimeter will therefore be  $48\text{cm}$ .

Answers

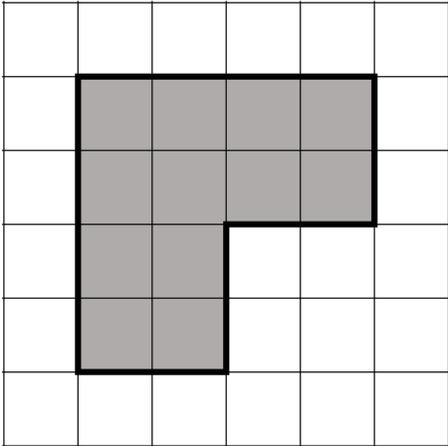
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## Independent Practice:

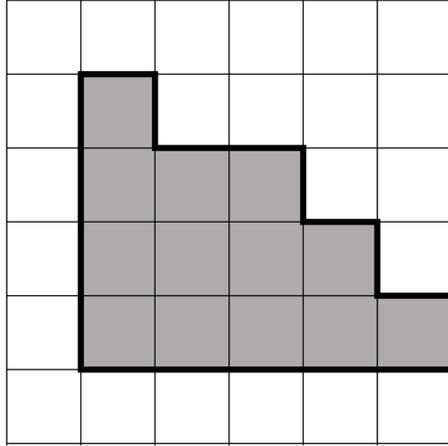
2. Use the information given to find the perimeter of the shape.

Each square measures 4cm by 4cm.

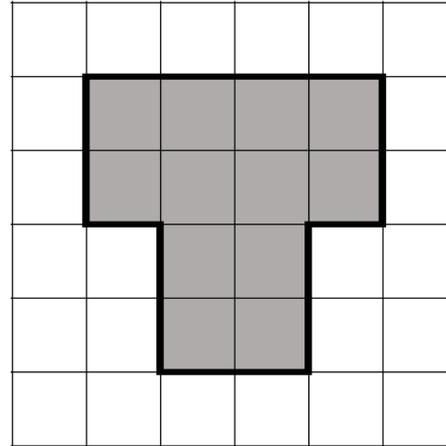
a.



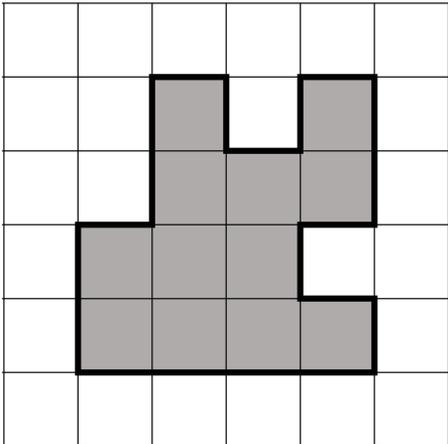
b.



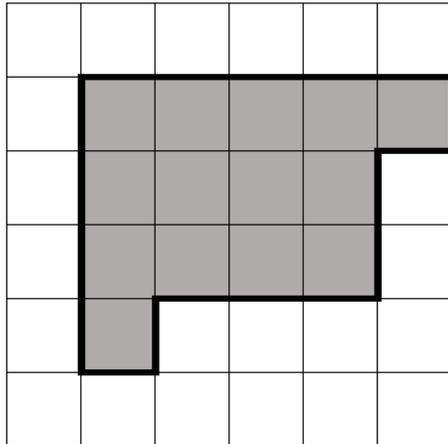
c.



d.



d.



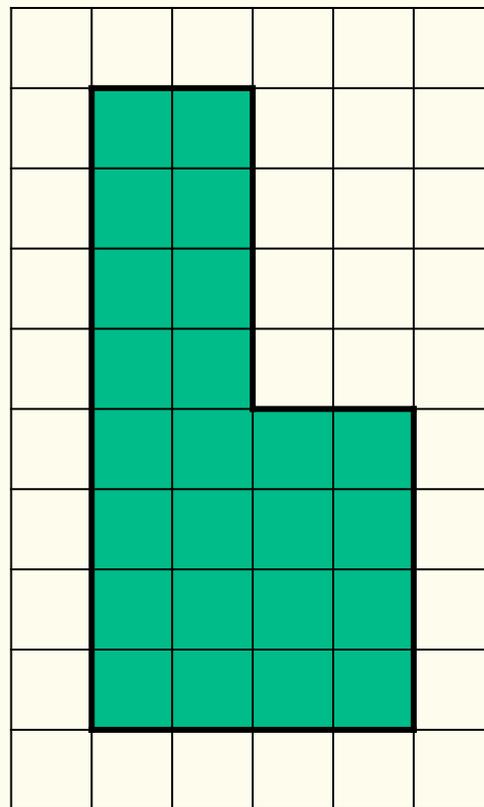
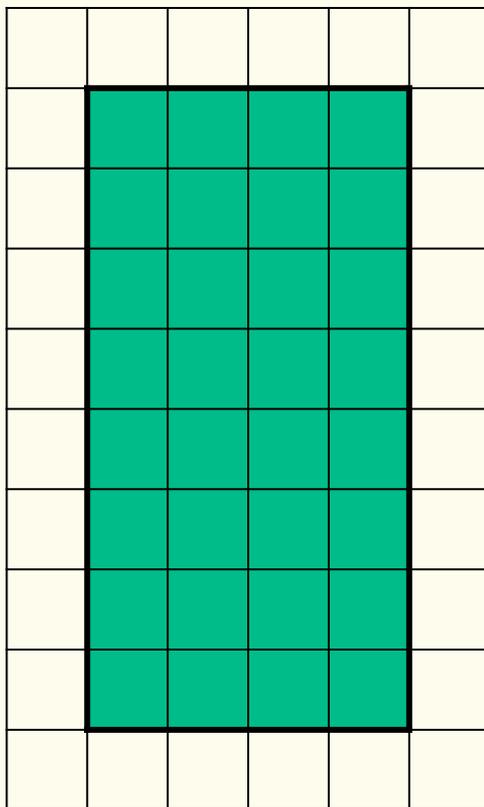
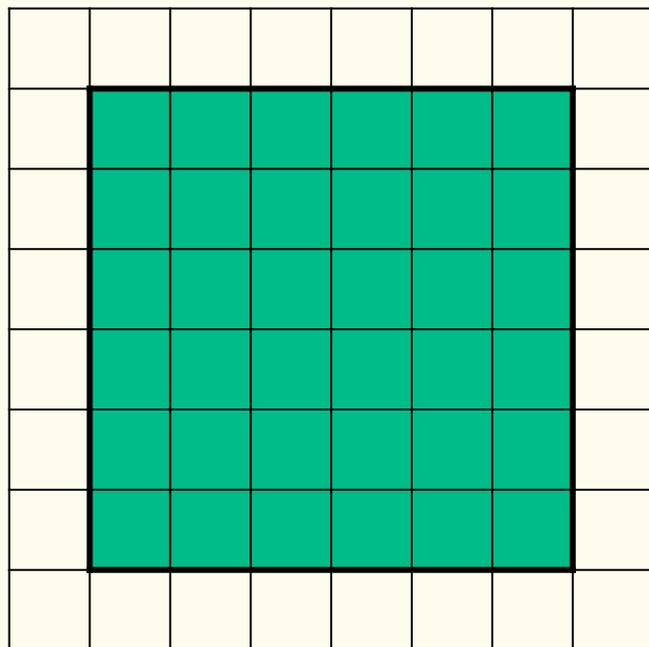


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**Guided Practice:**

**Draw one rectangle, one square and one composite rectilinear shape with a perimeter of 24cm.**

Example answers:



Answers



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**Independent Practice:**

- 3.** How many of each shape can you make with a perimeter of 40cm?
- a.** Rectangles
  - b.** Squares
  - c.** Composite rectilinear shapes



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### **Light bulb challenge**

**Draw two composite rectilinear shapes and calculate their perimeters.**

Combine your shapes with a partner.

What are the similarities and differences between the shapes you have drawn?