

# AREA - DAY 5

Fluency

LO:I can calculate the area of compound shapes

# INTRODUCTION

**LO:** I can calculate the area of compound shapes

Match the rectangle to the area.

The image shows three rectangles with their dimensions labeled:

- Yellow rectangle: width 6cm, height 12cm.
- Pink rectangle: width 14cm, height 5cm.
- Blue rectangle: width 6cm, height 13cm.

Below the rectangles are three rounded rectangular boxes containing area values:

- $70\text{cm}^2$
- $78\text{cm}^2$
- $72\text{cm}^2$

# INTRODUCTION

**LO:** I can calculate the area of compound shapes

Match the rectangle to the area.

The diagram shows three rectangles and three area values:

- Yellow rectangle: 6cm (width) and 12cm (height). Area:  $6 \times 12 = 72\text{cm}^2$ .
- Pink rectangle: 14cm (width) and 5cm (height). Area:  $14 \times 5 = 70\text{cm}^2$ .
- Blue rectangle: 6cm (width) and 13cm (height). Area:  $6 \times 13 = 78\text{cm}^2$ .

The area values are shown in boxes below the rectangles:

- $70\text{cm}^2$
- $78\text{cm}^2$
- $72\text{cm}^2$

# What is compound area?

LO: I can calculate the area of compound shapes

## Compound Area

Compound area is where a shape can be made up of other shapes.

The area of a compound shape can be found by calculating the area of the shapes from which they can be formed, and adding these together.

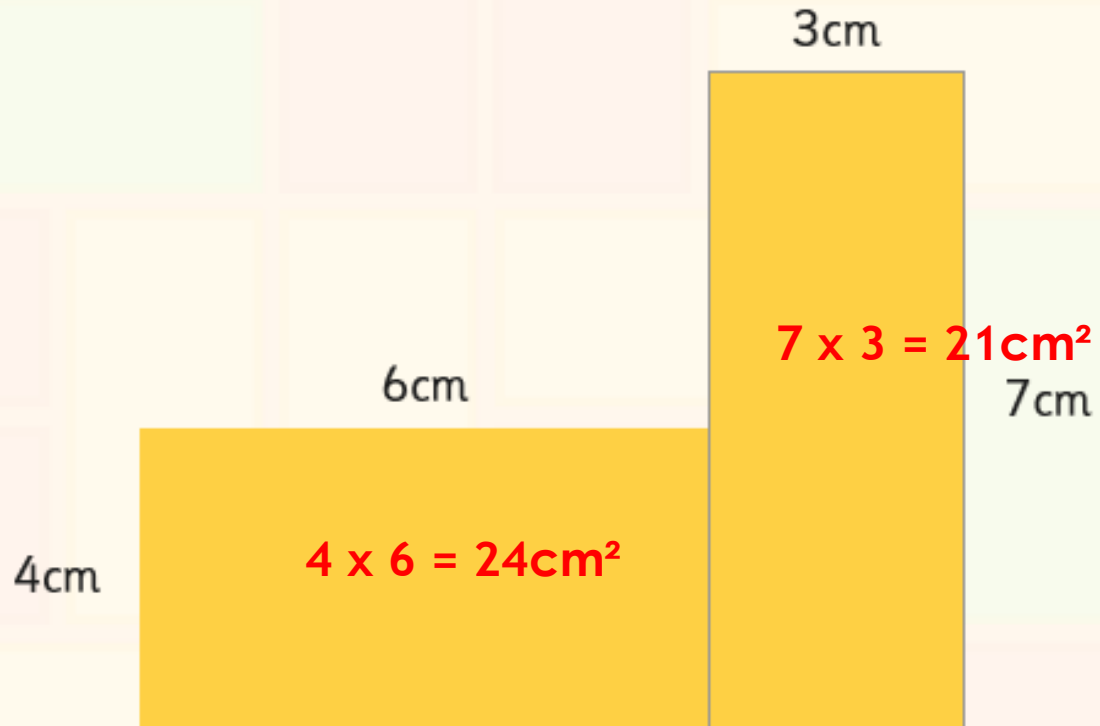
Here is a compound shape made of 2 rectangles.



## Fluency

# Compound Area

Calculate the area of this compound shape:



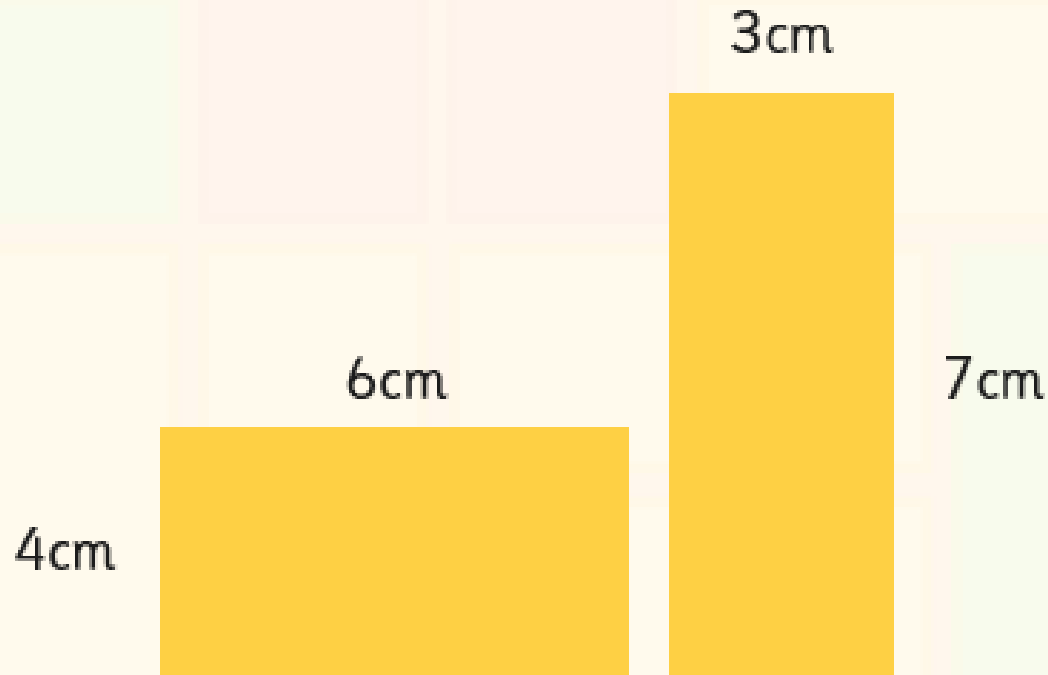
**LO:** I can calculate the area of compound shapes

$$24 + 21 = \underline{45\text{cm}^2}$$

# Fluency

**LO:** I can calculate the area of compound shapes

Calculate the area of this compound shape:

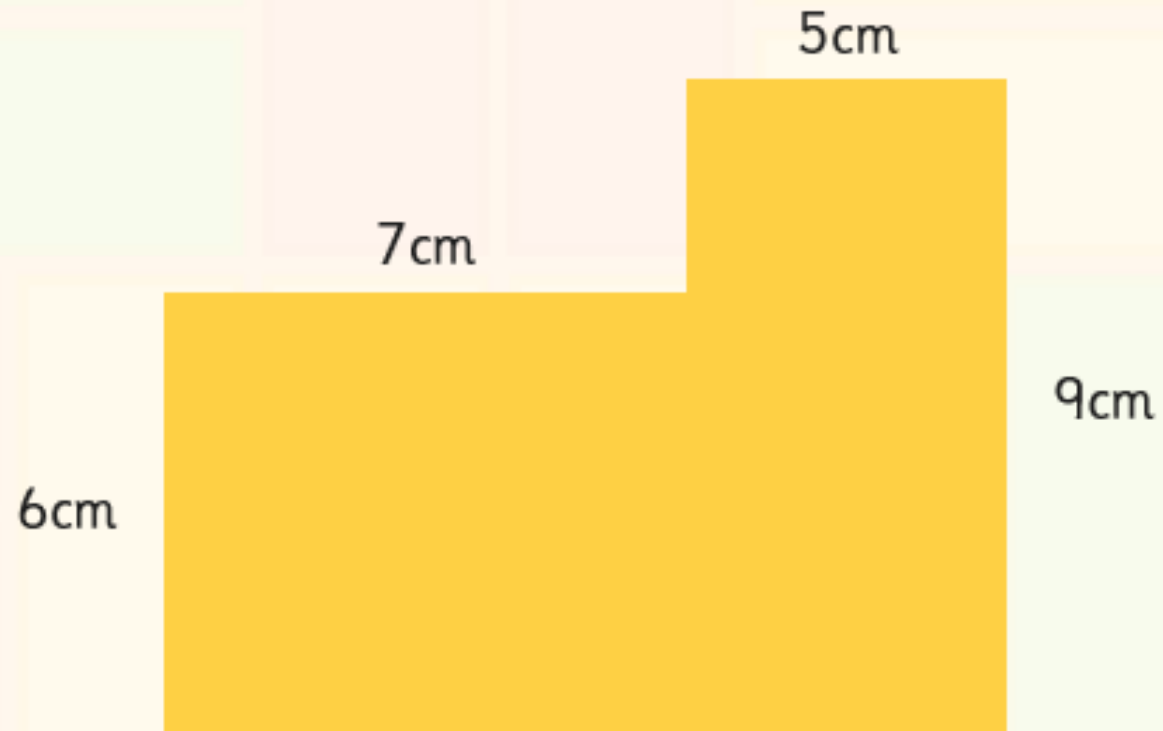


$$\text{Area} = (4\text{cm} \times 6\text{cm}) + (3\text{cm} \times 7\text{cm}) = 24\text{cm}^2 + 21\text{cm}^2 = 45\text{cm}^2$$

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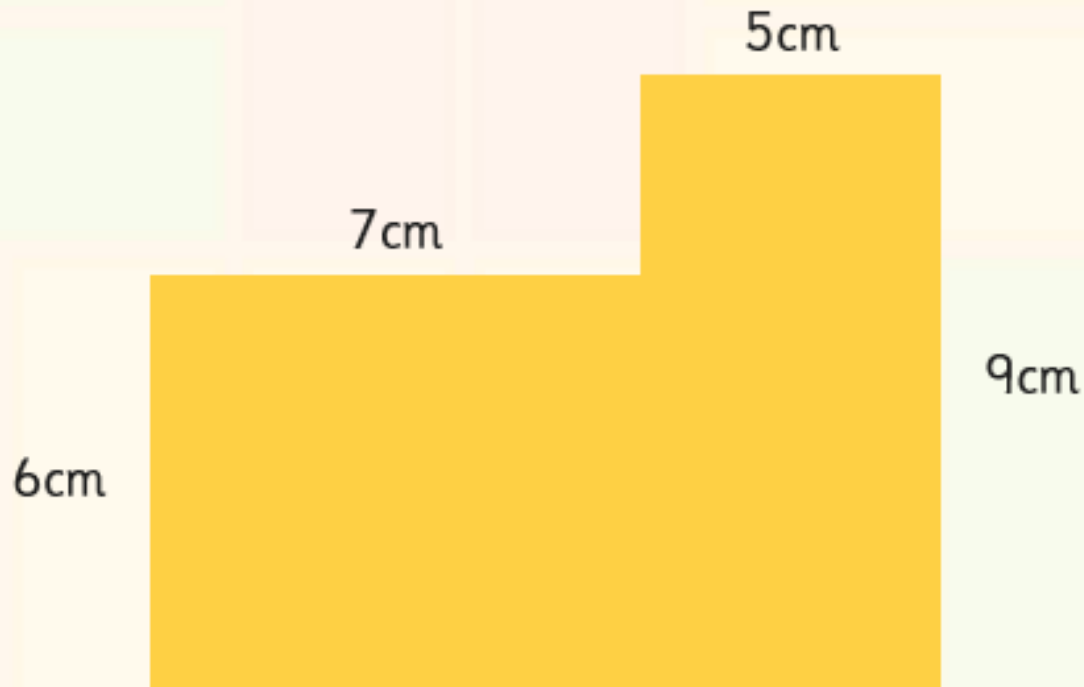
Calculate the area of this compound shape:



# What is compound area?

**LO:** I can calculate the area of compound shapes

Calculate the area of this compound shape:



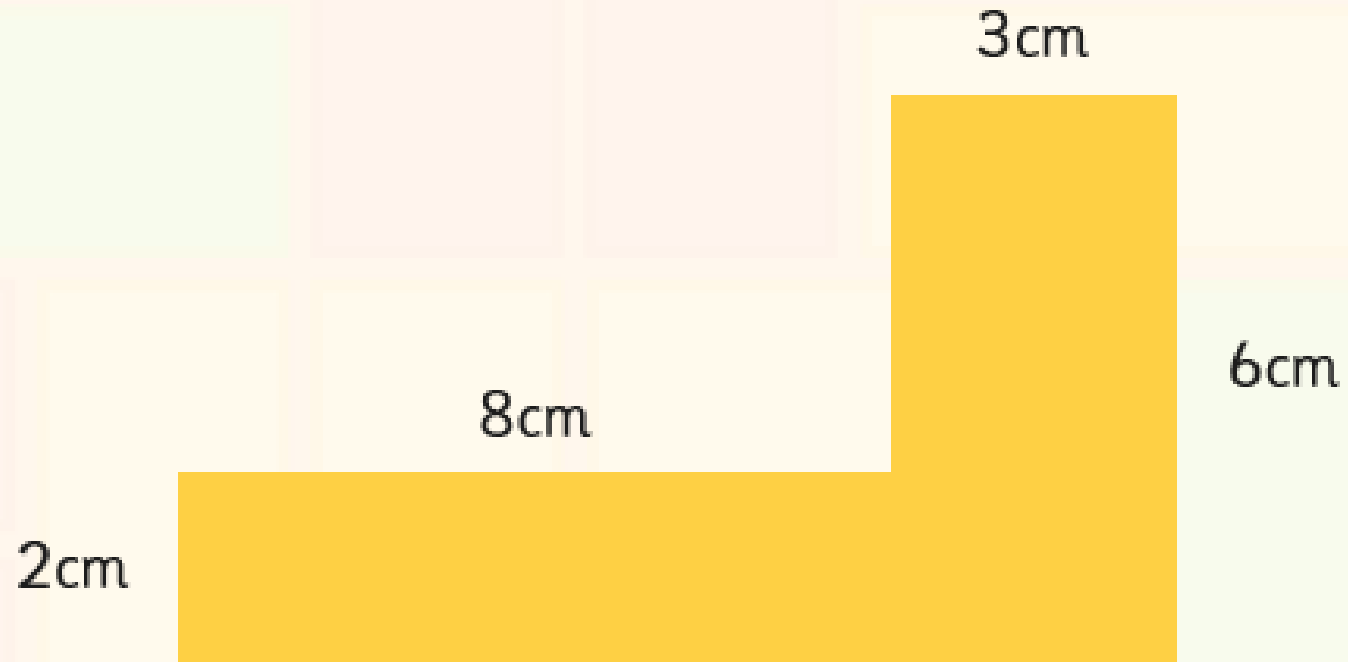
$$\text{Area} = (6\text{cm} \times 7\text{cm}) + (5\text{cm} \times 9\text{cm}) = 42\text{cm}^2 + 45\text{cm}^2 = 87\text{cm}^2$$



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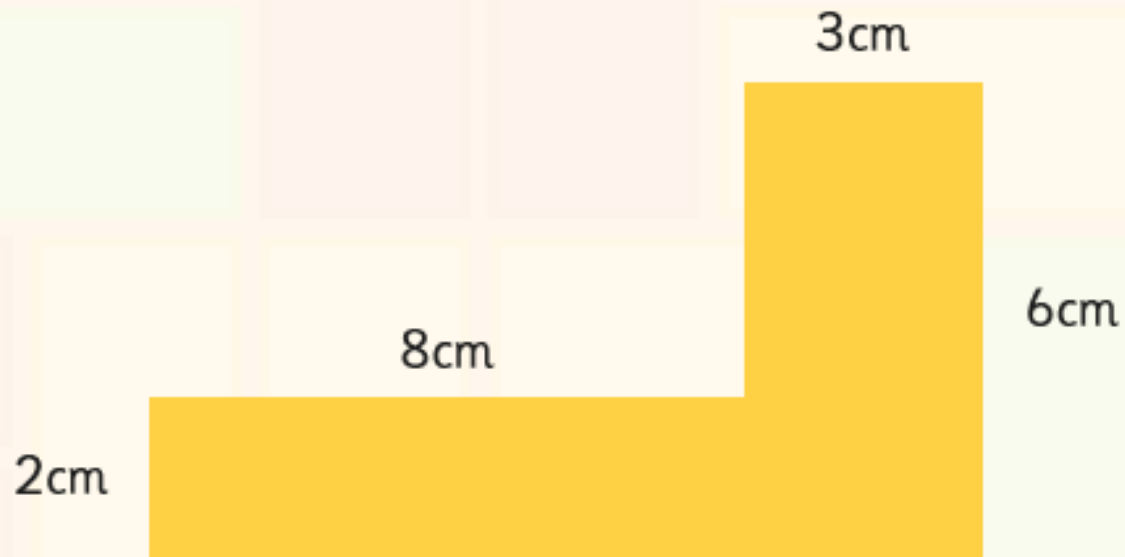
Calculate the area of this compound shape:



# Fluency

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Calculate the area of this compound shape:



$$\text{Area} = (2\text{cm} \times 8\text{cm}) + (3\text{cm} \times 6\text{cm}) = 16\text{cm}^2 + 18\text{cm}^2 = 34\text{cm}^2$$

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Calculate the area of this compound shape:

32cm

6cm

20cm

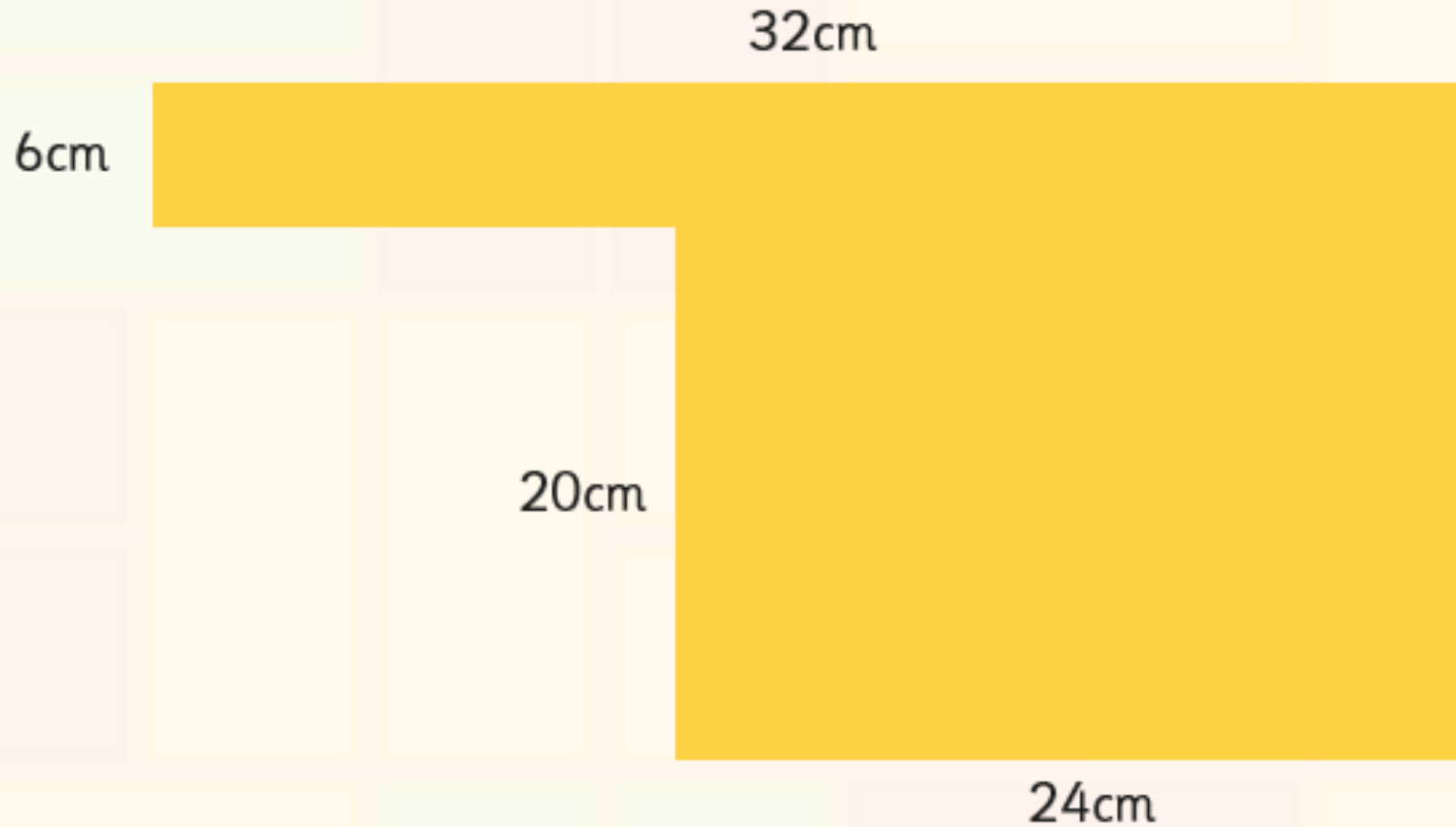
24cm



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Calculate the area of this compound shape:



$$\text{Area} = (6\text{cm} \times 32\text{cm}) + (20\text{cm} \times 24\text{cm}) = 192\text{cm}^2 + 480\text{cm}^2 = 672\text{cm}^2$$

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## Your Task...

### FLUENCY

Choose which of the following tasks you wish to complete.

Each group's worksheet is on the Home Learning Page.

