



THIRD SPACE  
LEARNING

# Perimeter and Area

To know how to find the area of a  
rectangle



## To know how to find the area of a rectangle

### Key Vocabulary:

Area
Perimeter

### Sentence Stems:

The area is the size of the surface of a 2-D shape.

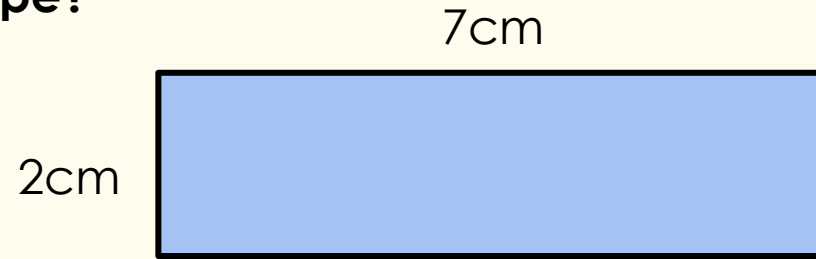
For rectangles, the area of a shape is calculated by multiplying the length by the width.

Area is measured in units squared or  $\text{unit}^2$ .

To know how to find the area of a rectangle

**In Focus:**

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



**A**  $14\text{cm}^2$

**C**  $28\text{cm}^2$

**B**  $9\text{cm}^2$

**D**  $18\text{cm}^2$



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## Success Criteria

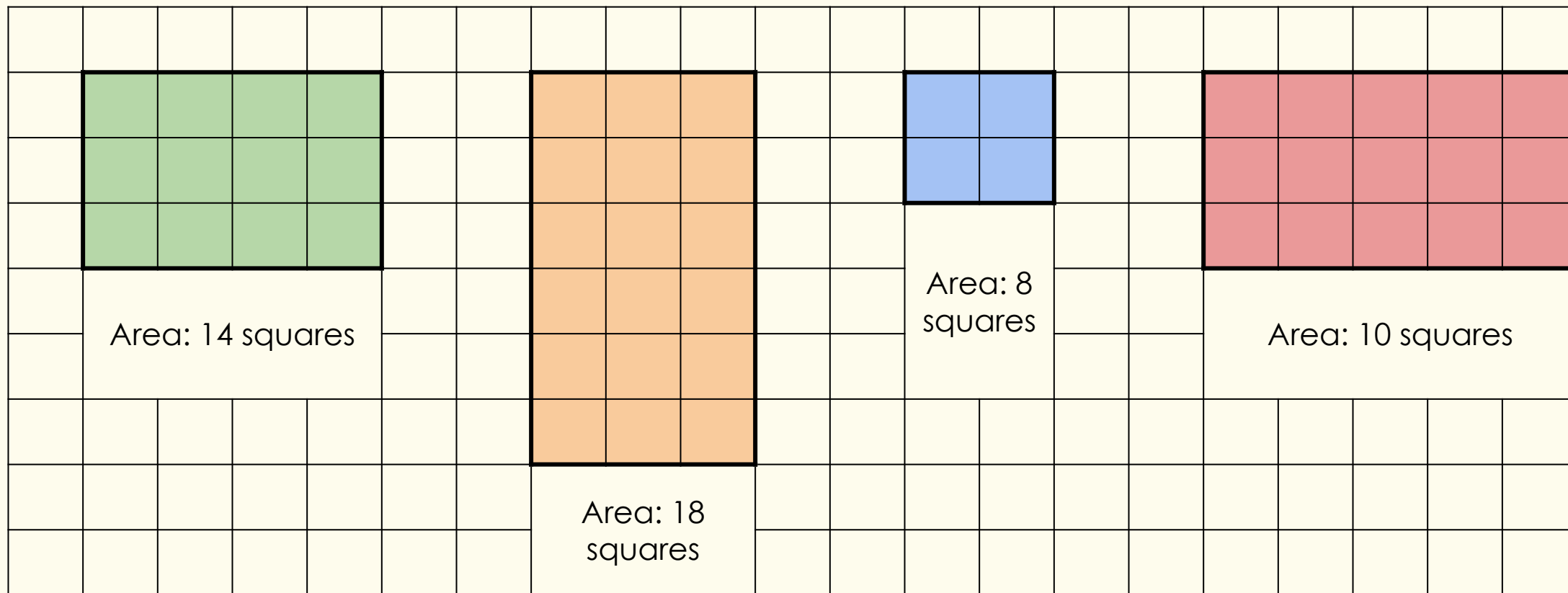
- I can explain what the area is
- I can explain the formula for calculating the area
- I can calculate the area of a rectangle



# To know how to find the area of a rectangle

**Starter:**

**Are the areas of the shapes correct?**



Green: Incorrect, it should be 12 squares.

Orange: Correct.

Blue: Incorrect, it should be 4 squares.

Red: Incorrect, it should be 15 squares.

Answers



To know how to find the area of a rectangle

**How are the area of a shape and perimeter of a shape different?**

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

The area is the size of the surface of a 2-D shape.

Answers

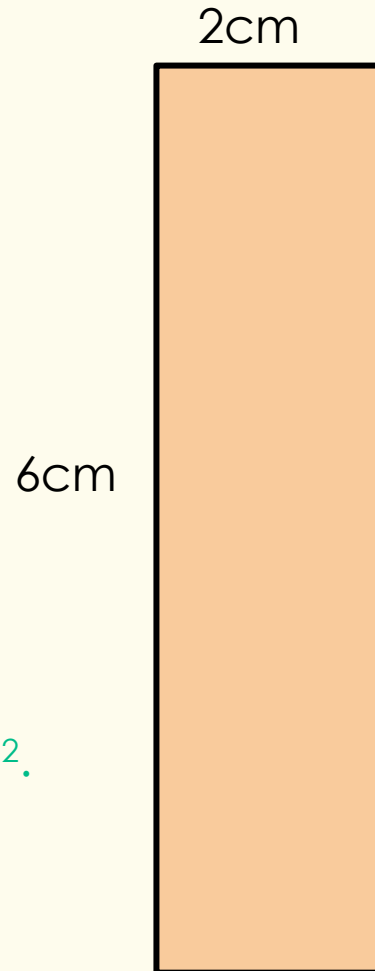
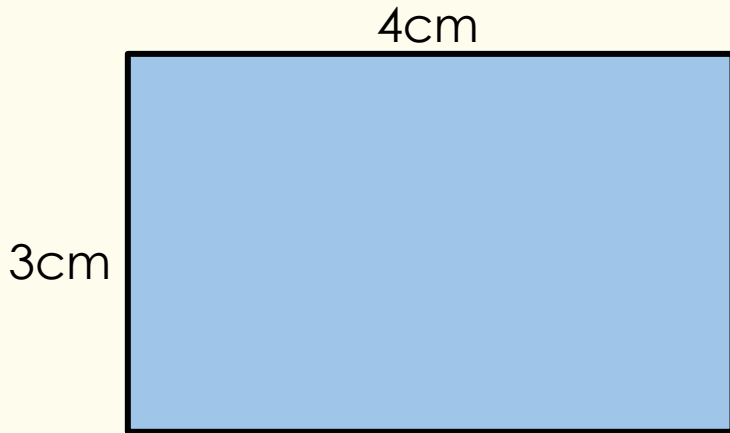
To know how to find the area of a rectangle

**Guided Practice:**

The astronaut has drawn two shapes.

They say the areas are the same.

**Do you agree?**



The astronaut is correct. They both have an area of  $12\text{cm}^2$ .

Answers



To know how to find the area of a rectangle

**Independent Practice:**

- 1.** Draw at least five rectangles with an area of  $40\text{cm}^2$ .





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**Guided Practice:**

Alice is preparing her new vegetable garden.

She digs vegetable patches with a length of 2m and width of 3m.

**What is the area of each vegetable patch?**

Area = length x width

Area = 2m x 3m

Area = 6m<sup>2</sup>

She digs 5 vegetable patches altogether.

**What is the total area of the vegetable patches?**

6m<sup>2</sup> x 5 patches = 30m<sup>2</sup>

Answers

## To know how to find the area of a rectangle

### Independent Practice:

- 2.** New terrace houses are being built in a town. Calculate the area of each room in the house.
  - a.** The living room is a square with a length of 4m.
  - b.** The kitchen has a length of 4m and a width of 3m.
  - c.** The dining room has a length of 2.5m and width of 4m.
  - d.** The bathroom has a length of 3m and width of 2m.
  - e.** The master bedroom has length of 4m and width of 3.5m
  - f.** There are 4 houses in the group of terraces. What is the total area for each type of room?



To know how to find the area of a rectangle

**Guided Practice:**

**Calculate the total area of each colour using the information given.**

Pink:

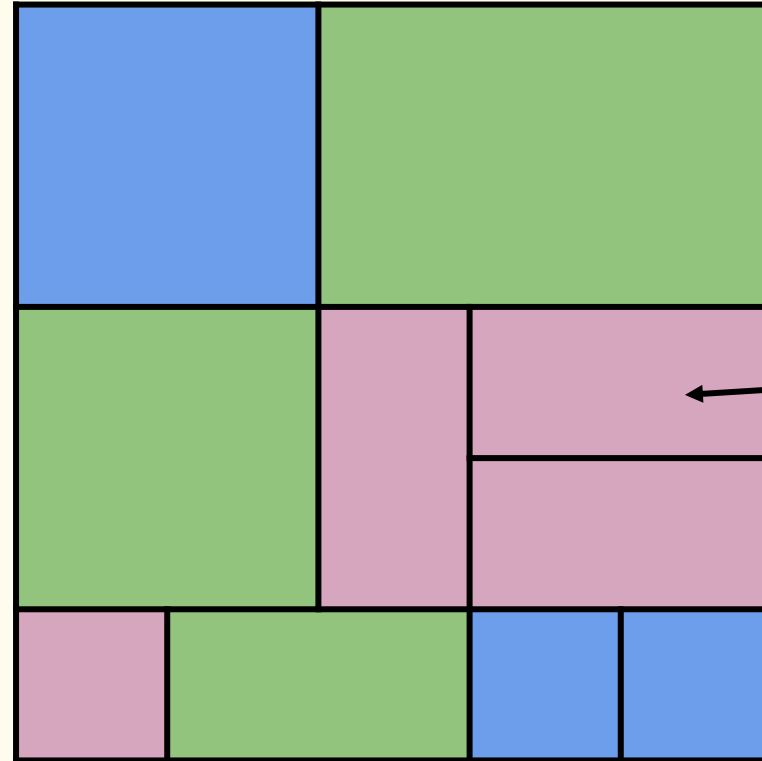
$$8\text{cm}^2 + 8\text{cm}^2 + 8\text{cm}^2 + 4\text{cm}^2 = 28\text{cm}^2$$

Blue:

$$16\text{cm}^2 + 4\text{cm}^2 + 4\text{cm}^2 = 24\text{cm}^2$$

Green:

$$24\text{cm}^2 + 16\text{cm}^2 + 8\text{cm}^2 = 48\text{cm}^2$$



This pink rectangle has an area of  $8\text{cm}^2$ .

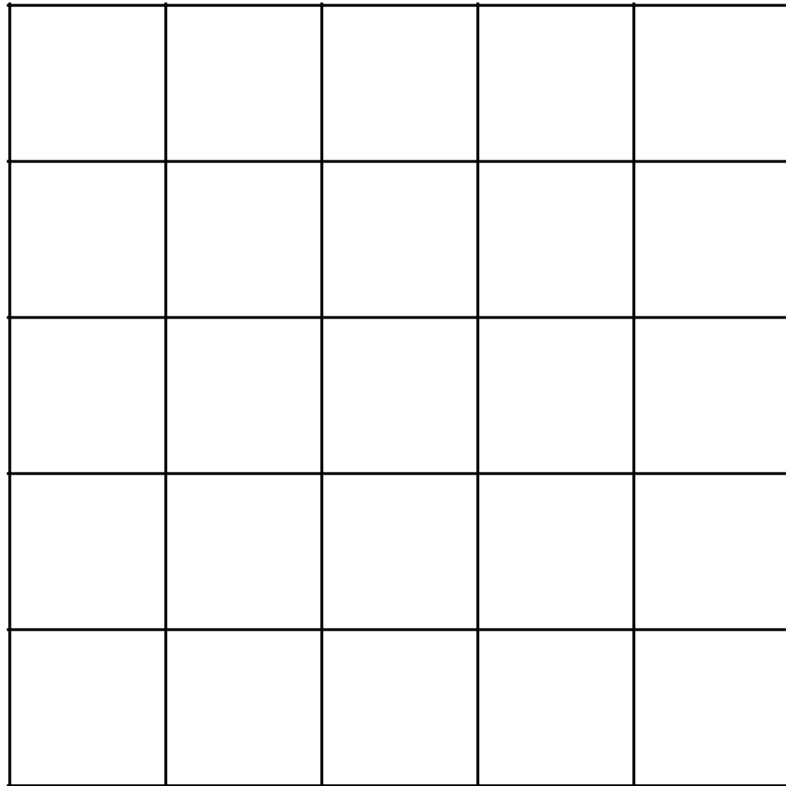
Answers



## To know how to find the area of a rectangle

### Independent Practice:

- 3.** Create your own image on this grid using 3 colours.  
Each square on the grid measures 3cm by 3cm.  
Calculate the area of each colour in the pattern you have created.



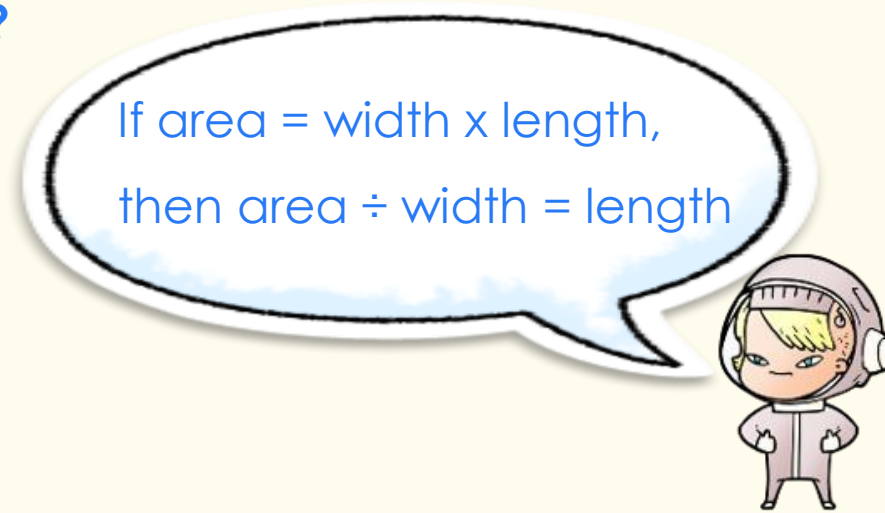


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### Light Bulb Challenge

**Do you agree with the astronaut?**

Explain your answer.



The astronaut is correct.

Answers