

Week 4 Maths

Examples, questions and challenges.

Day 1- Area

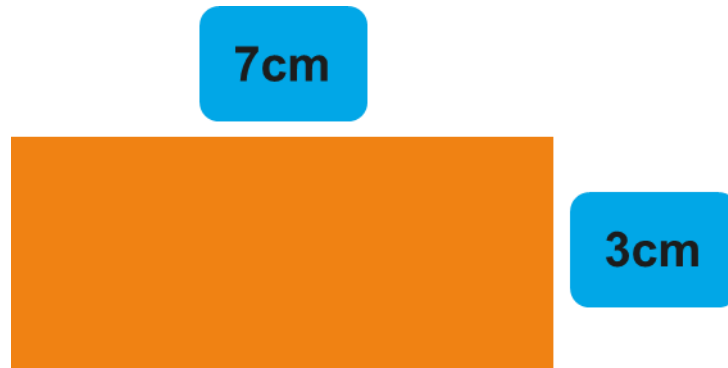
Can you remember how we work out
the area of a shape?

Watch this video:

[https://www.bbc.co.uk/bitesize/topics/zjbg87h/
articles/zwqt6fr](https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zwqt6fr)

Area- Example

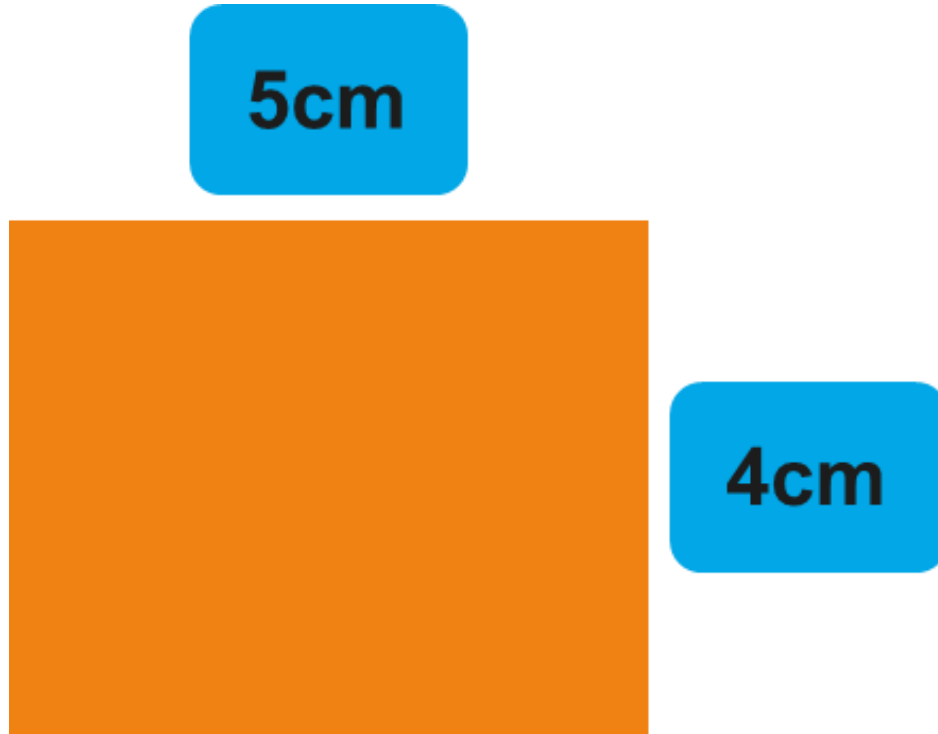
To find the area of a shape, you must **multiply** the length by the width. Look at the example below.



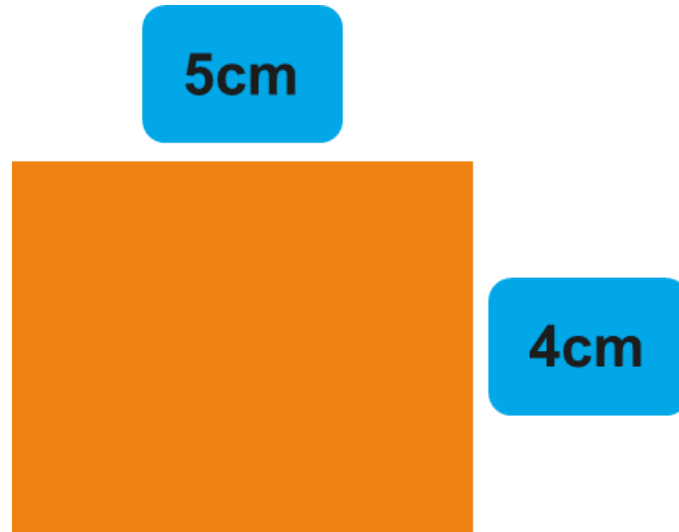
$$7\text{cm} \times 3\text{cm} = 21\text{cm}^2$$

Remember to put ² on the end of your answer when finding the area.

What is the area of this shape?

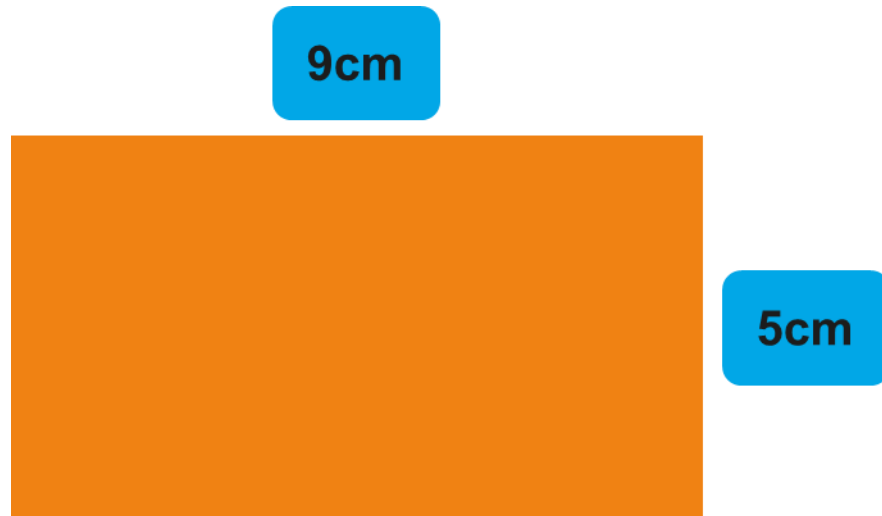


Answer

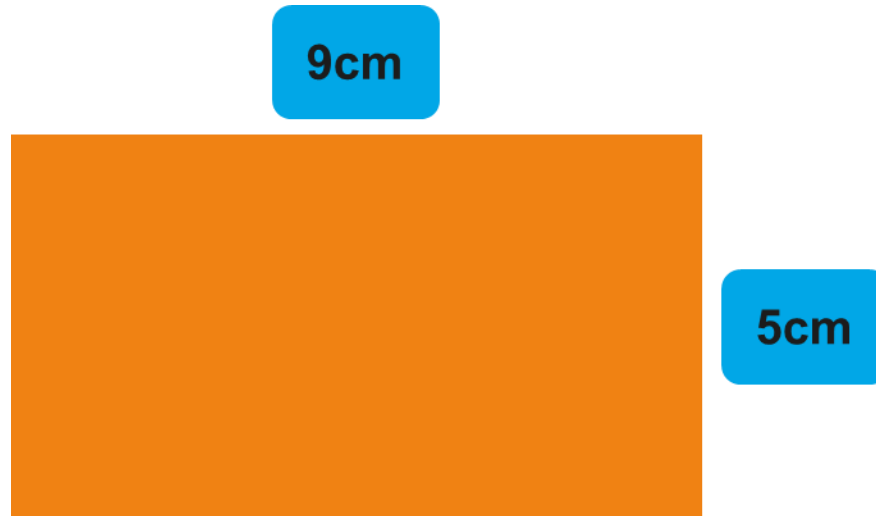


$$5\text{cm} \times 4\text{cm} = 20\text{cm}^2$$

What is the area of this shape?



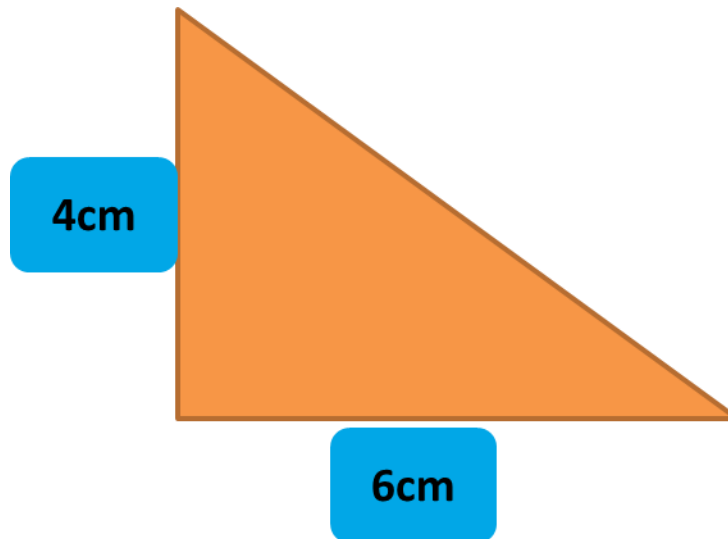
Answer



$$9\text{cm} \times 5\text{cm} = 45\text{cm}^2$$

Area of a triangle

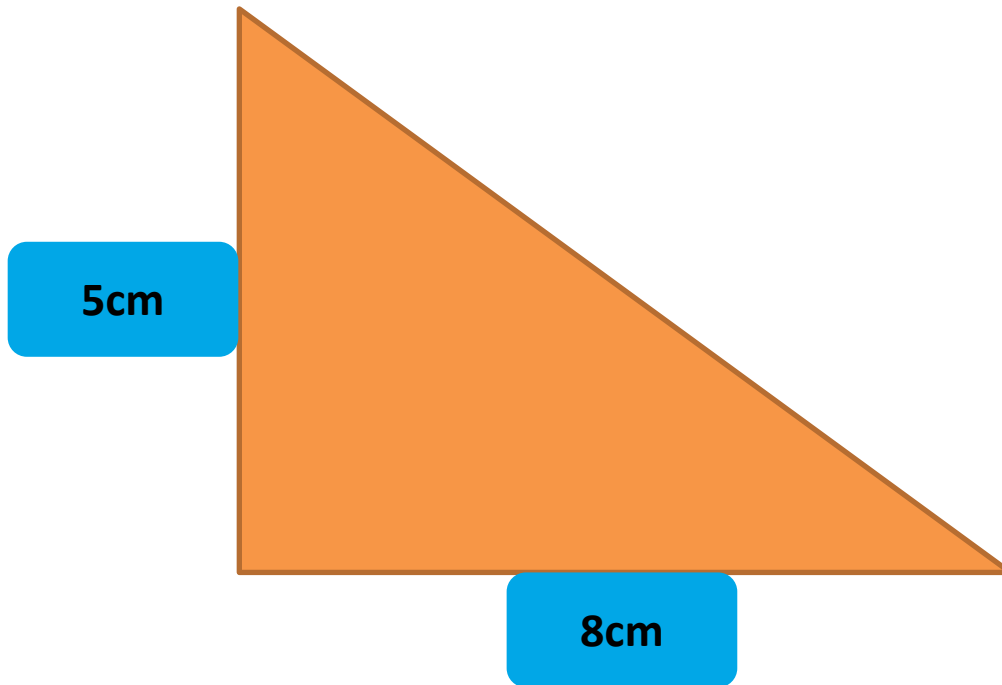
To work out the area of a triangle, you must **multiply** the length by the width. Then you must **divide your answer by 2**.



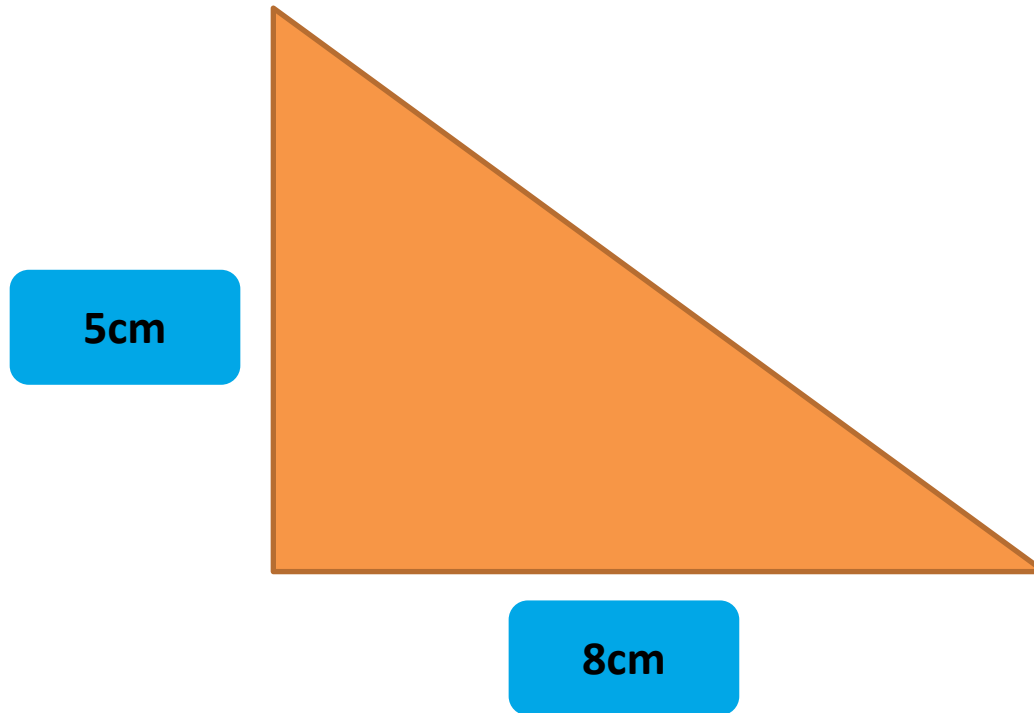
$$4\text{cm} \times 6\text{cm} = 24\text{cm}^2$$

$$24\text{cm}^2 \div 2 = 12\text{cm}^2$$

What is the area of this shape?



What is the area of this shape?



$$5\text{cm} \times 8\text{cm} = 40\text{cm}^2$$

$$40\text{cm}^2 \div 2 = 20\text{cm}^2$$

Challenge

Challenge 1: 'Day 1- Area Ch1' worksheet on website.

Challenge 2: 'Day 1- Area Ch2' worksheet on website.

Challenge 3: 'Day 1- Area Ch3' worksheet on website.

Type your answers onto your weekly word document.
Remember to self assess and type your challenge next to your date.

Day 2- Area of Compound Shapes

Compound Area- Example

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

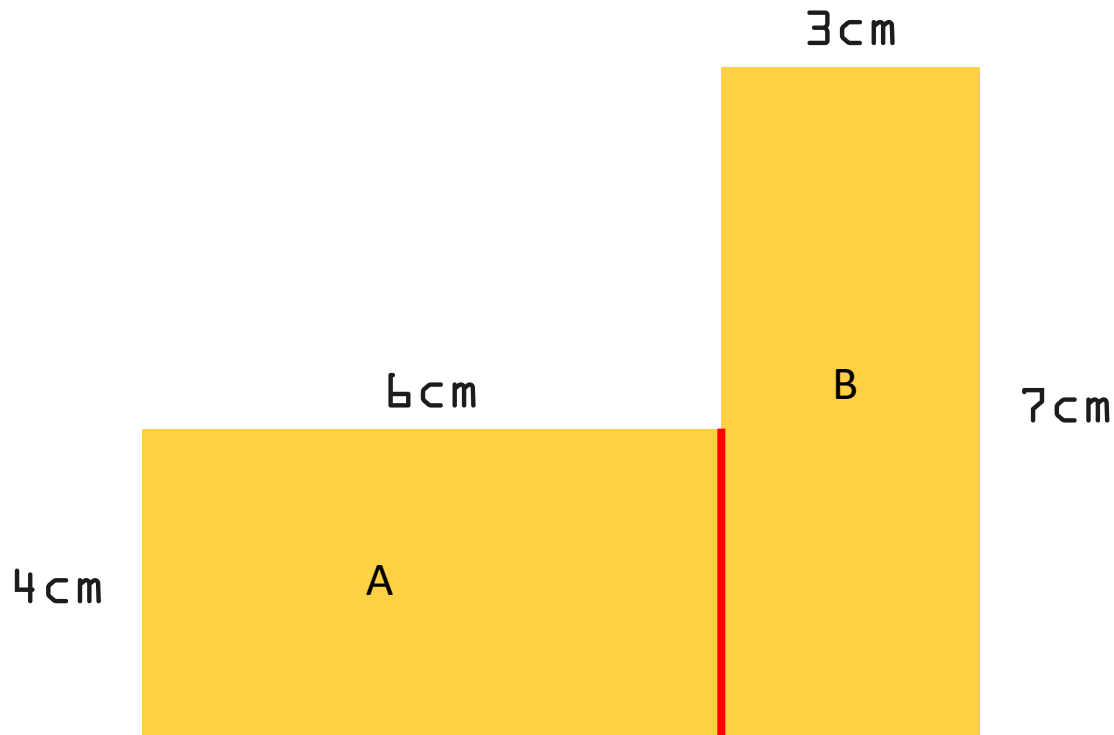
The area of a compound shape can be found by calculating the area of the shapes from which they can be formed, and adding these together.

Here is a compound shape made of 2 rectangles.



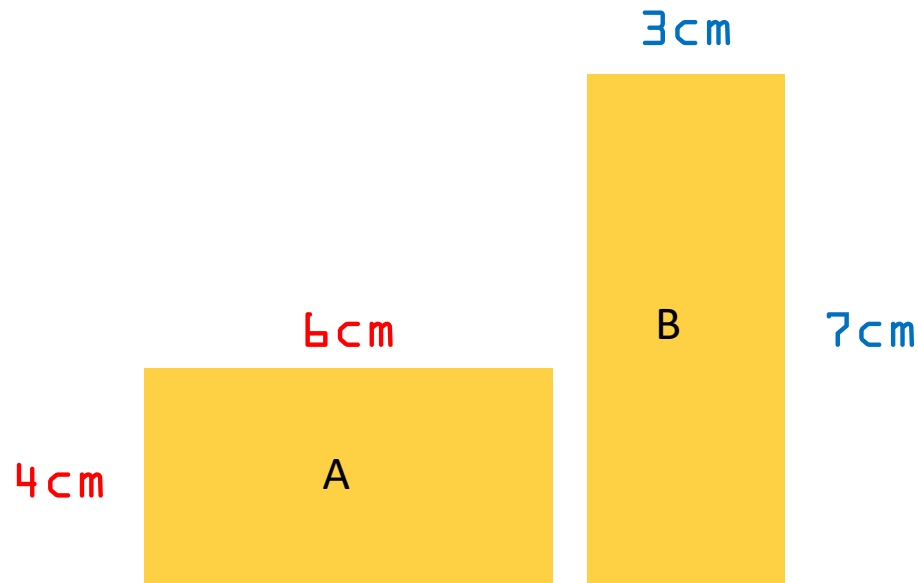
Compound Area- Example

This shape is made up of two triangles. Draw a line to separate them and label the shapes.



Compound Area - Example

Work out the area of both shapes and then add the answers together as shown below.



$$\begin{aligned} \text{A} \quad 6\text{cm} \times 4\text{cm} &= 24\text{cm}^2 & \text{B} \quad 7\text{cm} \times 3\text{cm} &= 21\text{cm}^2 \\ 24\text{cm}^2 + 21\text{cm}^2 &= 45\text{cm}^2 \end{aligned}$$

The area of this compound shape is **45cm²**

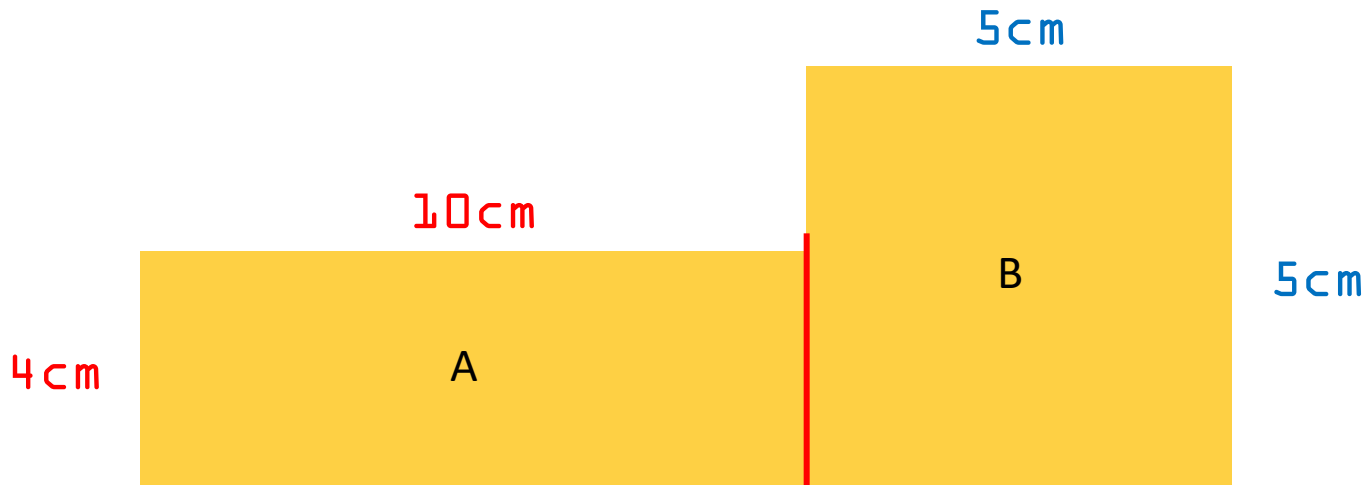
Compound Area

Can you work out the area of this compound shape?



Compound Area- Answer

Can you work out the area of this compound shape?



$$A \quad 10\text{cm} \times 4\text{cm} = 40\text{cm}^2$$

$$B \quad 5\text{cm} \times 5\text{cm} = 25\text{cm}^2$$

$$40\text{cm}^2 + 25\text{cm}^2 = 65\text{cm}^2$$

The area of this compound shape is **65cm²**

Challenge

All challenges should work out the answers on a scrap piece of paper and then type only the answers onto your weekly word document.

Challenge 1 and 2: Complete the sheets with **one star** (*) of the 'Day 2- Area of Compound Shapes' worksheet on the website.

Challenge 3: Complete the sheets with **two stars** (**) of the 'Day 2- Area of Compound Shapes' worksheet on the website.

Day 3- Perimeter

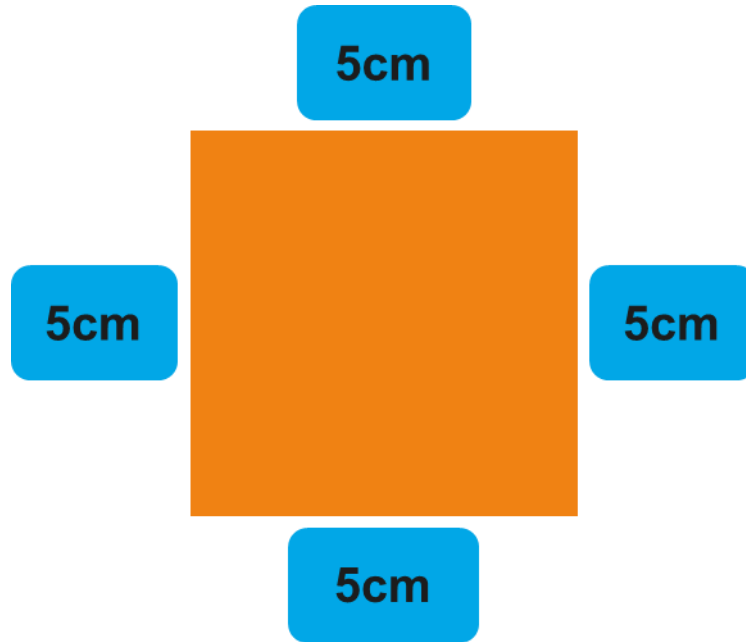
What is the perimeter?

Watch this video:

<https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zsr4k7h>

Perimeter- Examples

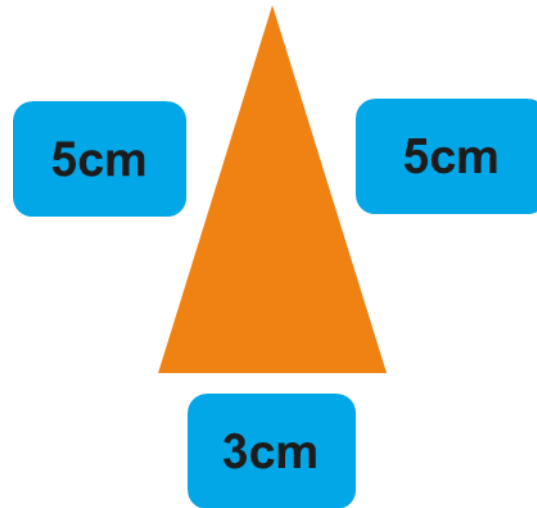
To find the perimeter of a shape, you must **add** all the sides together.



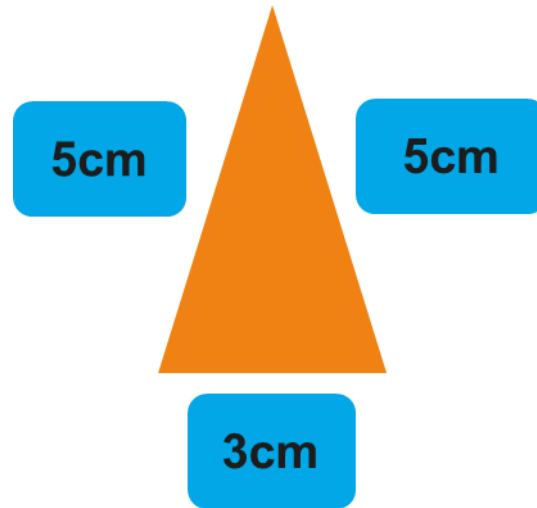
$$5 + 5 + 5 + 5 = 20\text{cm}$$

Perimeter- Examples

To find the perimeter of a shape, you must add all the sides together. What is the perimeter of this triangle?



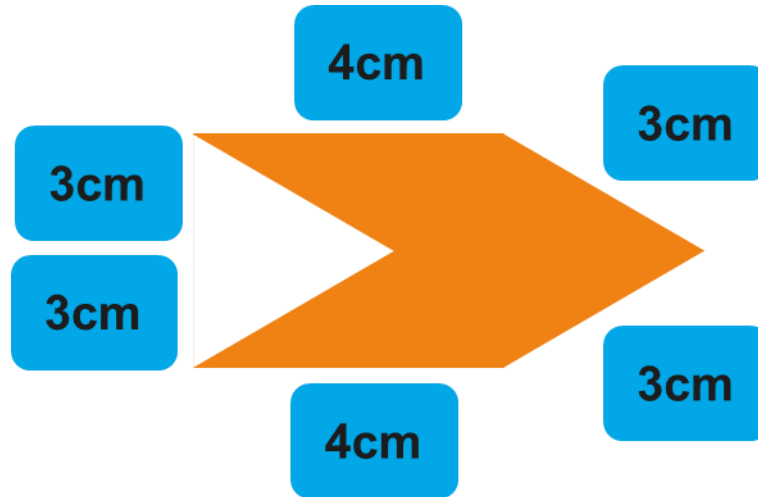
Perimeter- Examples



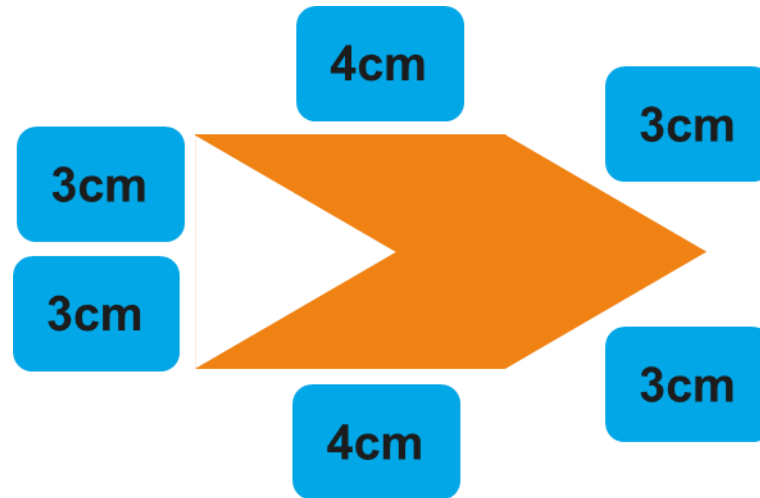
$$5 + 3 + 5 = 13\text{cm}$$

Perimeter- Examples

To find the perimeter of a shape, you must add all the sides together. What is the perimeter of this shape?



Perimeter- Examples



$$3 + 3 + 4 + 3 + 3 + 4 = 20\text{cm}$$

Challenge

Challenge 1: Complete the one star (*) sheet of the document called 'Day 3- Perimeter' on the school website.

Challenge 2: Complete the two star (**) sheet of the document called 'Day 3- Perimeter' on the school website.

Challenge 3: Complete the three star (***) sheet of the document called 'Day 3- Perimeter' on the school website.

Type your answers on your weekly word document.

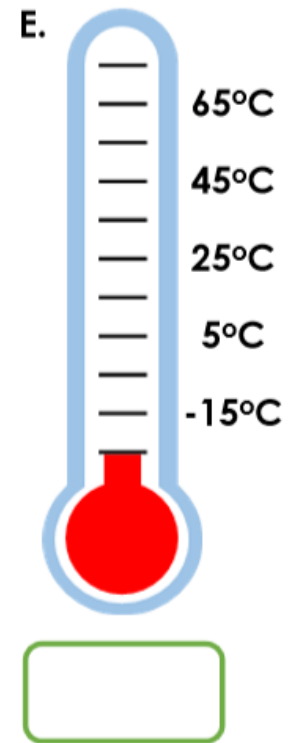
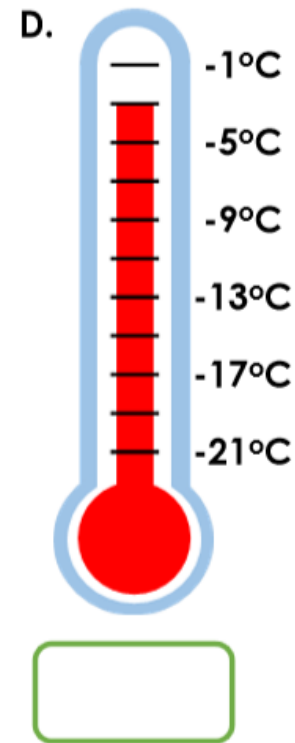
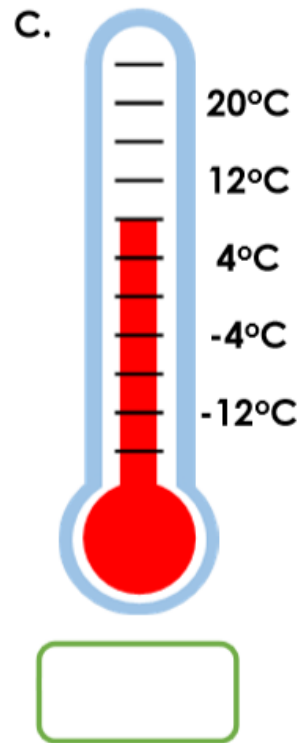
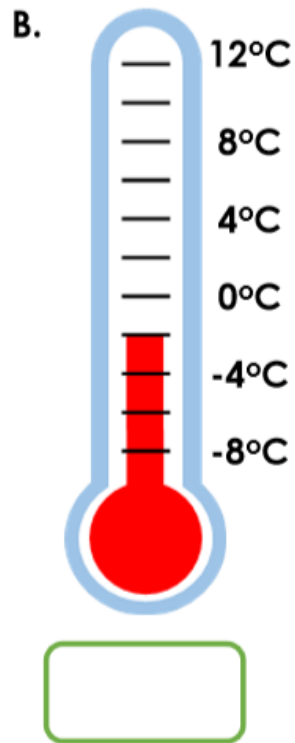
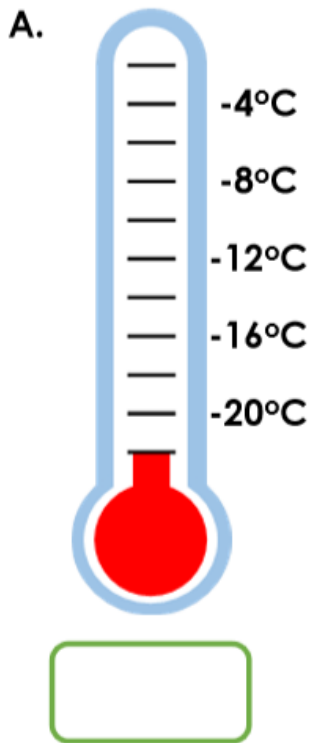
Day 4- Negative numbers

What can you remember about negative numbers?

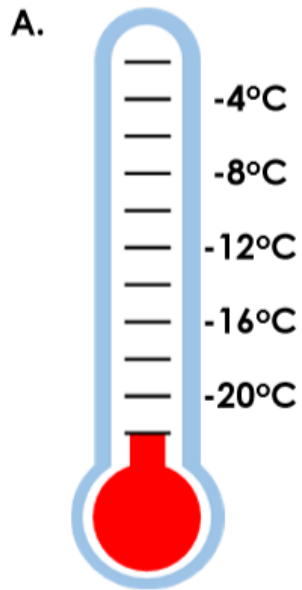
Watch the clip below:

<https://www.bbc.co.uk/bitesize/topics/znwj6sg/articles/zxthnbk>

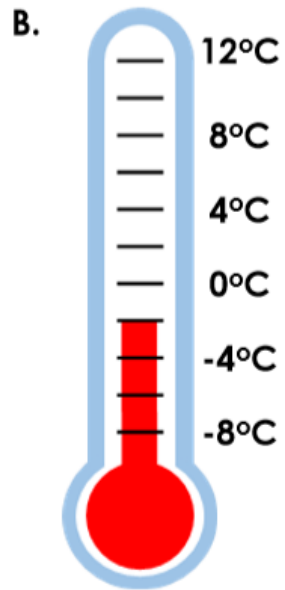
What are the temperatures shown on each thermometer?



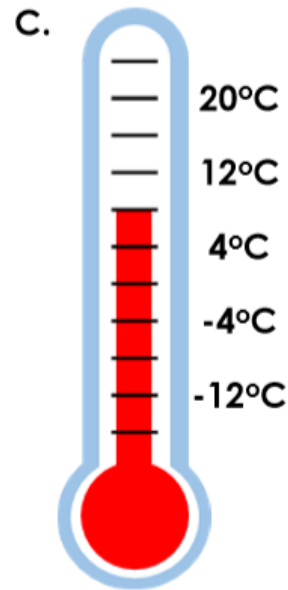
Answers



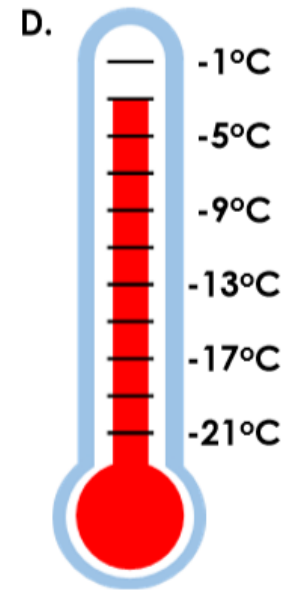
-22



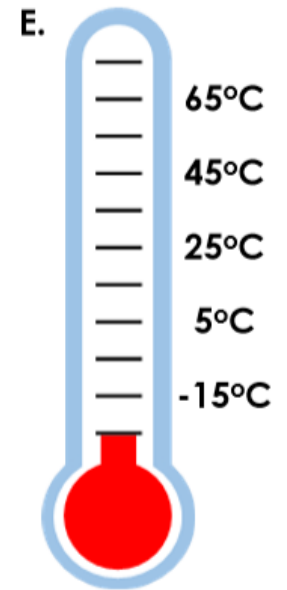
-2



8



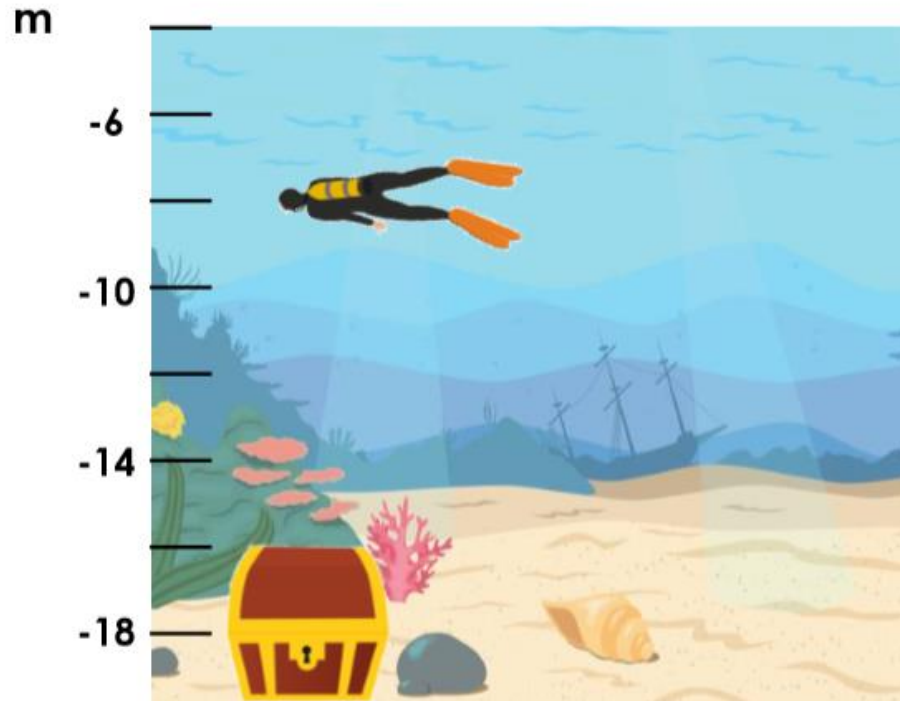
-3



-25

Can you work out the answer?

2. Diego the diver wants to reach the treasure. He dives down 8 metres. How much further does he need to go to reach the top of the treasure chest?



Activity

ALL Challenges: Complete **pages 1, 2 and 3** of the document called 'Day 4- Negative Numbers' on the website.

Type your answers onto your weekly word document. Remember to self assess next to your date.

Day 5- Times tables

Continue to practise your times tables as you have been doing the past few weeks.

By the end of year 4, you are expected to know your times tables up to 12 and their division facts.

Keep practising!



GREAT

WORK

AND

WELL

DONE