## YR3 Knowledge Organiser - Perimeter

## Key Concepts

- Measure the perimeter of simple 2D shapes

Key Vocabulary

- perimeter
- distance
- length
- measure
- centimetres
- method
- repeated addition
- multiplication


## Measure Perimeter

The perimeter is the distance all the way around the outside of a 2D shape. We can only find the perimeter of a complete shape.

"We cannot find the perimeter of the second shape because there is a gap."

To find the perimeter of a shape, add the lengths of all of the sides.

$4+2+4+2=12 \mathrm{~cm}$

We can use a ruler to measure the sides of a shape and find the perimeter.

"I know that a square has four equal side lengths so । can use repeated addition. The perimeter $=$
 $5+5+5+5=20 \mathrm{~cm}^{\prime \prime}$

## Calculate Perimeter

There are different methods we can use to calculate the perimeter of a shape.

For some shapes, where all of the sides are different lengths, we need to add all of the side lengths together.

$5 \mathrm{~cm}+7 \mathrm{~cm}+8 \mathrm{~cm}=$ 20 cm

For other shapes, where some of the sides are the same length, multiplication can also be used.
"Two of the sides are $9 \mathrm{~cm} .9 \mathrm{~cm} \times 2$ $=18 \mathrm{~cm}$, and $26 \mathrm{~cm}-18 \mathrm{~cm}=8 \mathrm{~cm}$ so each missing side is half of 8 cm . $8 \mathrm{~cm} \div 2=4 \mathrm{~cm}$ "


"Two of the sides are 10 cm so $10 \mathrm{~cm} \times 2=20 \mathrm{~cm}$. Two of the sides are 3 cm so $3 \mathrm{~cm} \times 2=6 \mathrm{~cm}$. $20 \mathrm{~cm}+6 \mathrm{~cm}=26 \mathrm{~cm}$

Our knowledge of the perimeter can also be used to calculate the missing length of a side.


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