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.



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 I can use repeated addition. The perimeter = 5 + 5 + 5 + 5 = 20 cm"

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.



5cm + 7cm + 8cm = **20cm**

For other shapes, where some of the sides are the same length, multiplication can also be used.





"Two of the sides are 10cm so 10cm \times 2 = 20cm. Two of the sides are 3cm so 3cm \times 2 = 6cm. 20cm + 6cm = 26cm

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



Perimeter = 26cm

"Two of the sides are 9cm. 9cm \times 2 = 18cm, and 26cm - 18cm = 8cm so each missing side is half of 8cm. 8cm \div 2 = 4cm"



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