

Max's Area and Perimeter Challenge

Learning objective: To calculate the area and perimeter of rectangles and composite rectilinear shapes.

Read the front of each card to test your knowledge of area and perimeter. Flip the card mentally (or check the answer provided) to see if you are correct. Max the monkey says: 'Check your units carefully!'

What is the definition of Perimeter?

The total distance around the outside edge of a 2D shape.

What is the formula to calculate the Area of a rectangle?

Length $\times$ Width.

If a rectangle has a length of 6cm and a width of 4cm, what is its Area?

24cm².

If a square has a side length of 5cm, what is its Perimeter?

20cm (5cm + 5cm + 5cm + 5cm).

A garden patch is 8m long and 3m wide. What is the total area in square metres?

24m².

What is a 'rectilinear' shape?

A shape where all the sides meet at right angles.

Max has a rectangular tray costing £5.00 that is 10cm by 2cm. What is its Perimeter?

24cm (10 + 10 + 2 + 2).

True or False: Area is always measured in squared units (e.g., cm² or m²).

True.

How do you find the perimeter of a shape when some side lengths are missing?

Use the known side lengths to calculate the missing lengths first, then add all sides together.

If a composite shape is made of two rectangles, how do you find the total area?

Calculate the area of each rectangle separately and then add them together.