

Max the Monkey's Garden Paths

Learning objective: To measure and calculate the perimeter and area of shapes.

Help Max the Monkey measure his vegetable garden. Read the passage and answer the questions. Use the word bank to help you.

Max the Monkey is building a new garden. He has a square patch that is 4cm long and 4cm wide. To find the perimeter, he adds up all the sides: $4 + 4 + 4 + 4 = 16\text{cm}$. To find the area, he counts the squares inside. He finds there are 16 square centimetres (16cm^2).

Word bank: Perimeter: The distance around the outside of a shape. · Area: The amount of space inside a shape. · Square centimetres: The unit we use for area (cm^2). · Centimetres: The unit we use for length (cm).

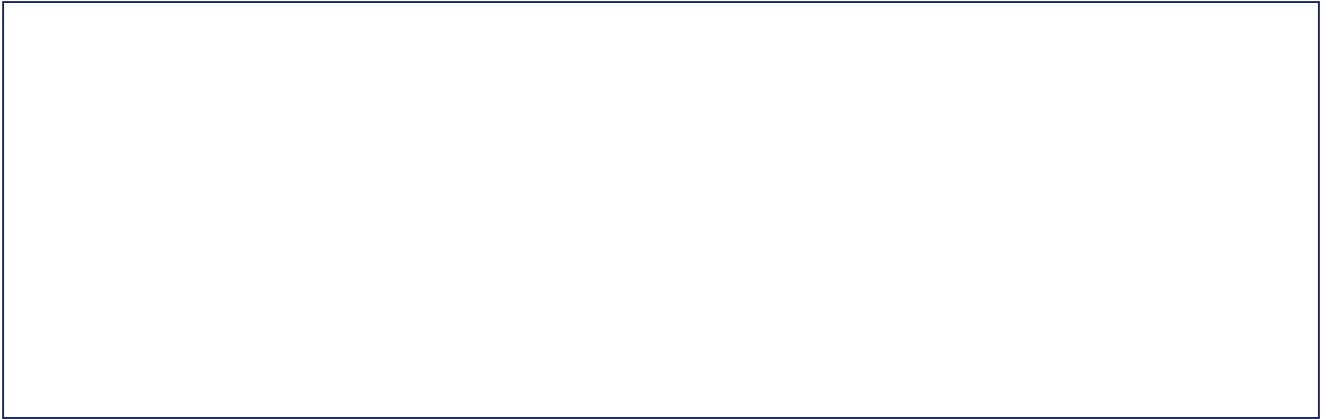
1. Max has a small path that is 3cm long and 2cm wide. What is the perimeter of the path? (Hint: $3 + 2 + 3 + 2 = ?$) (2 marks)

2. Look at a shape that is 5cm long and 2cm wide. What is the area? (Hint: count the squares inside or multiply 5×2) (2 marks)

3. If a square has a side of 3cm, what is its perimeter? (2 marks)

4. Max buys some seeds for £5.00. He pays with a £10.00 note. How much change does he get? (2 marks)

Draw: Draw a rectangle on the grid paper that is 4cm long and 3cm wide. Label the sides.



Extension challenge: Can you draw a different shape that also has an area of 12cm^2 ?