Area and Perimeter Assessment: Max's Garden Project

Learning objective: To measure and calculate the perimeter of rectilinear shapes and find the area by counting squares.

Read each question carefully. Use the word bank if you get stuck. Max the monkey needs your help to build his vegetable patch!

Max the monkey is building a vegetable patch. He needs to measure the fence around the edge (perimeter) and the space inside for his seeds (area).

Word bank: Perimeter · Area · Squares · Total · Length · Width · Distance · Boundary

1. Max has a small square patch. Each side is 3cm long. What is the perimeter of his patch? (Add the four sides together: 3 + 3 + 3 + 3) (2 marks)

2. Look at the shape below made of 1cm squares. How many squares cover the surface? This is the area. Count the squares: (2 marks)

3. Max buys a fence for £12. He also buys seeds for £5. What is the total cost of his items? Show your working out. (4 marks)

4. A rectangle has a length of 5cm and a width of 2cm. Draw this shape on the grid provided in the box below and calculate the perimeter. (6 marks)

5. Max wants to build a new patch with an area of 10 squares. He has 14m of fencing. Explain why this shape would work or not work using your knowledge of perimeter and area. (6 marks)

Draw: Draw a rectangle on the grid below that is 5 squares long and 2 squares wide. Label the sides.

Extension challenge: Max wants to double the area of his 10-square patch. How many squares would the new patch have? Explain your answer. Total: /25