Max’s Magnificent Market Stall

Learning objective: To apply knowledge of metric measures (length, mass, and capacity) to design and label a functional market stall layout.

Max the monkey is setting up a fruit and vegetable stall for the BookFlik community. Use your ruler and protractor to draw a scale layout of his stall. Ensure you include items of different masses, lengths, and capacities as requested in the questions below.

Draw: Draw a bird's-eye view of a rectangular market stall. Include: 1) A rectangular tabletop with accurate dimensions; 2) Four distinct areas on the table for strawberries (mass), juice (capacity), rhubarb (length), and a price sign (£2.50 per kg); 3) Use neat, straight lines and label each item with its specific metric measurement.

Label words: millimetres (mm) · centimetres (cm) · metres (m) · grams (g) · kilograms (kg) · millilitres (ml) · litres (l) · perimeter · capacity

Steps:

1. Draw the rectangular table to scale (use 1cm = 10cm). Calculate and label the perimeter of the table in metres.

2. Max places three 250g punnets of strawberries on the table. What is the total mass in kilograms? Show your working.

3. If Max lines up four stalks of rhubarb end-to-end, what is the total length in centimetres? How many metres is this?

4. Explain why it is more appropriate to measure the apple juice in litres rather than millilitres if Max has 10 bottles of 500ml juice.

5. Compare and contrast the units you would use to measure the mass of a single blueberry versus a crate of potatoes. Justify your choices.

6. What might happen if Max accidentally recorded the length of his table as 200mm instead of 200cm? How would this affect his ability to display his goods?