

Max's Market Stall: A Measurement Challenge

Learning objective: To solve problems involving the calculation and conversion of units of measure, including length, mass, and volume, using decimal notation up to three decimal places.

Max the monkey is running a local market stall to raise funds for the library. He has organised his items into different categories. Read the information below and complete the tasks to help Max manage his stock. You will need to convert between units (e.g., grams to kilograms, millilitres to litres) to solve these puzzles.

Word bank: millilitres · litres · grams · kilograms · millimetres · metres · conversion · decimal

1. Max has 4,500g of loose-leaf tea. He wants to sell them in 250g bags. How many bags can he fill? Give your answer in kilograms. (2 marks)

2. A decorative ribbon is 3.5 metres long. Max needs to cut it into 70cm strips. How many full strips can he cut? Show your working out. (2 marks)

3. Max sells bottles of juice that hold 750ml each. If he sells 6 bottles, what is the total volume in litres? (2 marks)

4. A wooden shelf for the stall is 1,200mm long. Max needs to attach a sign that is 0.45m long. How much of the shelf length remains in centimetres? (2 marks)

5. Max sells homemade honey for £4.50 per 500g jar. A customer buys 2.5kg of honey. How much does the customer pay in total? (2 marks)

Draw: Draw a sketch of Max the monkey standing at his market stall. Label the items on his table with their correct measurements, ensuring you use a mix of units (e.g., 1.2kg of apples, 500ml of honey).



Extension challenge: Max decides to offer a 'bulk buy' discount. If a customer buys more than 3kg of any item, they get 15% off the total price. Create a word problem for a friend to solve involving this discount and at least two different units of measurement.