

Max's Measurement Marathon: The Village Market

Learning objective: To solve problems involving the conversion of metric units, including length, mass, and volume, and to calculate with money.

Read the story below carefully. Use Max the monkey's maths skills to help him calculate the measurements and costs for the village market stall. Show your working out clearly.

Max is helping organise the annual village market. He has a list of items to prepare. He needs 2.5 kilograms of flour for his famous banana bread, but his scales only measure in grams. He also has 4500 millilitres of fresh orange juice to pour into 500 millilitre bottles. Finally, he is measuring out lengths of ribbon for the stall decorations; he has a roll that is 12 metres long and needs to cut 15 pieces, each measuring 60 centimetres. Max notices that the price for a jar of honey is £4.50, but he has a special offer: buy three jars for £12.00.

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

1. How many grams of flour does Max need for his banana bread? (1 mark)

2. How many 500 millilitre bottles can Max fill with his 4500 millilitres of orange juice? (2 marks)

3. What is the total length of ribbon used if Max cuts 15 pieces, each measuring 60 centimetres? Give your answer in metres. (3 marks)

4. How much money does a customer save by buying three jars of honey using the special offer instead of paying the individual price? (2 marks)

5. Max has 1.5 kilometres of string to hang bunting. If he uses 850 metres, how many metres of string does he have left? (2 marks)

Draw: Draw a diagram showing Max the monkey measuring out ribbon. Label the lengths of the ribbon in both centimetres and metres to show you understand the conversion.



Extension challenge: Max wants to sell bags of mixed nuts. If a bag weighs 250g and costs £1.75, how much would 2kg of nuts cost in total?