

Max's Market Stall: A Measurement Challenge

Learning objective: To measure, compare, add and subtract lengths, masses and volume/capacity using standard units (m/cm/mm, kg/g, l/ml).

Help Max the monkey organise his market stall! Read the passage about his fruit and vegetables, then solve the maths problems below. Finally, complete the drawing activity to show how Max sets up his stall.

Max is busy setting up his market stall to sell healthy snacks. He has a pile of apples with a total mass of 4kg. He also has 2,500ml of freshly squeezed orange juice to sell in small bottles. Max uses a piece of string that is 150cm long to hang a sign above his stall, but he decides to cut 35cm off the end to make it fit perfectly. Finally, he weighs a large pumpkin, which is exactly 3kg heavier than a small melon that weighs 2kg.

Word bank: millilitres · centimetres · kilograms · capacity · mass · length

1. Max has 2,500ml of orange juice. If he pours the juice into bottles that hold 500ml each, how many bottles will he fill? (2 marks)

2. What is the new length of the string after Max cuts 35cm off the 150cm piece? (2 marks)

3. What is the total mass of the large pumpkin and the small melon combined? (2 marks)

4. Max sells a bag of grapes for £2.50. If a customer pays with a £5.00 note, how much change should Max give back? (2 marks)

5. If Max had 4kg of apples and sold 1,500g of them, how many grams of apples would he have left? (3 marks)

Draw: Draw Max the monkey at his market stall. Include the large pumpkin (label it with its mass in kg) and the string sign hanging above the stall (label it with its length in cm). Decorate the stall with colourful patterns and fruit.



Extension challenge: Max wants to create a new sign that is twice the length of his current 115cm sign. How long would the new sign be in metres and centimetres? Explain how you worked out your answer.