

Max's Market Math Challenge

Learning objective: To convert between different units of metric measurement and solve problems involving money.

Help Max the monkey calculate the costs and measurements at the community market. Remember: 1000g = 1kg, 100cm = 1m, and 1000ml = 1l.

Max the monkey is visiting the local market to buy ingredients for a giant fruit salad. He sees a crate of apples weighing 2.5 kilograms. He also buys 1,500 millilitres of fresh orange juice and 80 centimetres of ribbon to decorate his basket. The apples cost £3.50 per kilogram, the juice costs £2.20 per liter, and the ribbon costs 40p per 10 centimetres.

Word bank: convert · millilitres · kilograms · centimetres · total · decimal

1. How many grams do Max's 2.5 kilograms of apples weigh? (2 marks)

2. What is the total cost of the 2.5 kilograms of apples? (2 marks)

3. If the orange juice costs £2.20 per liter, how much does 1,500 millilitres of juice cost? (2 marks)

4. Max buys 80 centimetres of ribbon. Given the ribbon costs 40p per 10 centimetres, what is the total price of the ribbon in pounds (£)? (2 marks)

5. Max has a £20 note. After buying the apples, the juice, and the ribbon, how much change should he receive? (3 marks)

Draw: Draw a picture of Max the monkey carrying his market basket, including a label showing the weight of the apples in kilograms and the volume of juice in litres.



Extension challenge: If Max wanted to make a double batch of his fruit salad, how would his shopping list change? Calculate the new total cost if he doubled the quantity of every item.