

Max's Measurement Mission

Learning objective: To convert between different units of measure, such as kilometres to metres and hours to minutes, and solve problems involving money.

Help Max the monkey solve these measurement puzzles by showing your working out clearly. Remember to check your units!

Max the monkey is planning a jungle trek. He needs to travel 3 kilometres to reach the Big Banana Tree. Each step Max takes is 50 centimetres long. He packs a backpack that weighs 2 kilograms and carries a water bottle containing 1,500 millilitres of water. Along the way, he stops at a jungle market where a bunch of bananas costs £1.20 and a bag of nuts costs 85p.

Word bank: millimetre · centimetre · metre · kilometre · gram · kilogram · millilitre · litre · convert

1. How many metres does Max need to travel to reach the Big Banana Tree? (2 marks)

2. Max drinks 500 millilitres of water. How many litres of water does he have left? (2 marks)

3. Max buys a bunch of bananas and a bag of nuts. If he pays with a £5 note, how much change should he receive? (3 marks)

4. If Max's backpack weighs 2 kilograms, how many grams is that in total? (1 mark)

5. Max walks for 1 hour and 15 minutes. How many minutes is this in total? (2 marks)

Draw: Draw a map of Max's journey showing the starting point, the market, and the Big Banana Tree, labelling the distances between them in kilometres and metres.



Extension challenge: Max finds a rare fruit that weighs 2,500 grams. How many kilograms is this? If he shares it equally between himself and four friends, how many grams does each person get?