Max’s Market Maths Challenge

Learning objective: To solve multi-step word problems involving the four operations, including money and measures.

Read each scenario carefully. Show your working out clearly in the space provided to help Max the monkey calculate the totals and differences.

Max the monkey is helping his friends prepare for the annual Forest Fair. He has been put in charge of the supplies. First, he visits the fruit stall where he buys 12 kilograms of bananas at £1.45 per kilogram. He pays with a £20 note. Next, he visits the craft stall to buy 8 rolls of colourful ribbon. Each roll costs £2.85. Finally, Max needs to share 156 decorative stickers equally between 12 different activity stations for the younger animals.

Word bank: calculate · remainder · difference · operation · total · equivalent

1. How much change should Max receive from the fruit stall after buying 12 kilograms of bananas at £1.45 per kilogram? (2 marks)

2. What is the total cost of the 8 rolls of ribbon for the craft stall? (1 mark)

3. If Max pays for the ribbon with two £20 notes, how much change will he get back? (2 marks)

4. How many stickers will each of the 12 activity stations receive? (1 mark)

5. Max decides to buy 5 additional packs of balloons at £3.20 each. If he has £15 remaining in his budget, can he afford them? Explain your reasoning. (3 marks)

Draw: Draw a picture of Max the monkey holding a clipboard and a basket filled with fruit and ribbon, standing in front of a colourful forest market stall.

Extension challenge: Max has 450 stickers left over. He wants to pack them into envelopes that hold 15 stickers each. How many envelopes does he need, and will there be any stickers left over?