Max’s Busy Market Day: Long Multiplication Mastery

Learning objective: To multiply multi-digit numbers up to four digits by a two-digit whole number using the formal written method of long multiplication.

Max the monkey is helping the local market traders calculate their daily earnings. Read the scenario below and use your long multiplication skills to solve the problems. Show all your working out clearly.

Max is visiting the farmers' market to help with the accounts. The local baker has sold 42 boxes of artisan crackers, and each box costs £18. Meanwhile, the fruit stall has sold 125 punnets of strawberries at £4 per punnet, but they also sold 24 crates of premium apples for £35 per crate. Finally, the flower stall sold 63 bouquets at £26 each. Max needs to find the total revenue for each trader to help them track their success.

Word bank: multiplicand · multiplier · product · place value · column · regrouping · total

1. Calculate the total amount made by the baker who sold 42 boxes of crackers at £18 each. (2 marks)

2. The fruit stall sold 24 crates of apples at £35 per crate. Calculate the total earnings for the apple sales. (2 marks)

3. Calculate the total amount earned by the flower stall, which sold 63 bouquets at £26 each. (2 marks)

4. If the fruit stall also sold 125 punnets of strawberries at £4 each, what is the combined total for the fruit stall's apple and strawberry sales? (3 marks)

5. Max finds a mistake in the ledger: a trader sold 1,245 packets of seeds at £12 each. What is the total value of these seed sales? (3 marks)

Draw: Draw a picture of Max the monkey sitting at a wooden market stall with a clipboard, surrounded by crates of fruit, colorful bouquets of flowers, and boxes of bread.

Extension challenge: Imagine the baker decides to increase the price of the crackers to £22. If they still sell 42 boxes, how much extra money would they make compared to the original price of £18 per box? Explain your method.