

Max's Market Multiplication Challenge

Learning objective: To multiply numbers up to 4 digits by a one-digit or two-digit number using a formal written method, including long multiplication for two-digit numbers.

Max the monkey is helping at the local market today. Use your multiplication skills to help him calculate the total costs for his friends. You may use the formal written method (column multiplication) to solve these problems. Show your working out clearly in the space provided.

Word bank: product · multiplier · multiplicand · column method · place value · carry · total · exchange

1. Pip the caterpillar wants to buy 14 packets of bookmarks. Each packet costs £12. What is the total cost for Pip? Show your calculation. (3 marks)

2. Nova the owl is buying 23 star-charts for her astronomy club. Each chart costs £15. How much will Nova spend in total? (3 marks)

3. Ellie the elephant needs 125 jars of storytelling honey for the library event. If each jar costs £8, what is the total price? (3 marks)

4. Zara the zebra is purchasing 34 packets of art supplies. Each packet costs £26. Calculate the total cost of the supplies. (3 marks)

5. Max has £500 to spend. If he buys 12 items that cost £38 each, does he have enough money left over? Explain your answer using your calculation. (4 marks)

Extension challenge: Choose one of your answers and explain how you used place value to help you solve the multiplication problem. Could you have solved it using an alternative method, such as partitioning?