

Max's Mathematical Market Stall

Learning objective: To apply multiplication strategies including formal written methods and mental recall of times tables up to 12x12 to solve multi-step problems.

Max the monkey is helping his friends store at the woodland market. He has created a price list for fruit and stationery. Use your knowledge of multiplication and addition to solve these market challenges. Show your working out clearly for every calculation.

Word bank: Product · Multiple · Calculation · Total · Digit · Estimate · Equation

1. Pip the caterpillar wants to buy 7 apples at 24p each and 4 notebooks at 85p each. What is the total cost of his shopping? Show your calculation. (3 marks)

2. Zara the zebra buys 12 packs of colorful pencils. Each pack costs 76p. If she pays with a £10 note, how much change should she receive? Justify your answer. (3 marks)

3. Leo the lion needs to buy 9 jars of honey for his poetry club. Each jar costs £1.45. Compare the cost of 9 jars to the cost of 10 jars. Explain why the difference is the price of one jar. (3 marks)

4. Kit the fox calculates that 6 boxes of 14 paperclips cost £5.04. Is he correct? Show your multiplication method to prove your answer. (3 marks)

5. If apples cost 24p each, how many could Nova the owl buy with exactly £3.00? Explain how you used division or multiplication to find this. (3 marks)

6. What might happen if the price of a notebook increased from 85p to 92p? Calculate the new cost for a set of 6 notebooks and compare it to the original price. (3 marks)

Draw: Draw a sketch of Max the monkey behind a market stall displaying 12 apples priced at 24p each and a stack of notebooks. Label your drawing with the total value of the items displayed.



Extension challenge: Design your own store items with prices. Write three 'Greater Depth' multiplication word problems for a partner to solve, ensuring at least one problem requires using a 3-digit number multiplied by a 1-digit number.