

Max's Magnificent Market Calculations

Learning objective: To add whole numbers with more than 4 digits, including using formal column addition and solving multi-step problems.

Read each scenario carefully. Use formal column addition to solve the problems. Show your working out clearly, ensuring your place value columns are perfectly aligned.

Max the monkey is helping at the community market. He needs to calculate the total takings and inventory for the stallholders to ensure the funds are balanced correctly.

Word bank: column addition · place value · total · sum · exchange · calculate · digit · thousands

1. The local bakery sold £14,562 worth of sourdough bread and £28,749 worth of pastries. Calculate the total revenue for the bakery. (2 marks)

2. A fruit stall has 32,450 red apples and 19,875 green apples in their storage crates. What is the total number of apples available at the stall? (2 marks)

3. Max found a box containing £45,670 in old coins and another bag containing £36,945. What is the combined value of the two collections? (2 marks)

4. Explain why it is essential to align the digits according to their place value when adding numbers like 56,782 and 4,391. What might happen if the place value columns are misaligned? (3 marks)

5. Compare the sum of $12,345 + 54,321$ with the sum of $54,321 + 12,345$. Justify your observation based on the properties of addition. (2 marks)

Draw: Draw a busy market scene where Max the monkey is using an abacus or a clipboard to count colourful baskets of fruit and jars of honey.



Extension challenge: Max has three crates of produce. Crate A has 15,000 items. Crate B has 5,000 more than Crate A. Crate C has the sum of Crate A and B combined. Calculate the total number of items across all three crates. If each item is sold for £2, what is the total potential profit?