

Max's Market Stall Challenge

Learning objective: To solve division problems involving remainders and multi-digit numbers in a real-world context, meeting Year 6 national curriculum expectations.

Max the monkey is helping at the local community market. He needs to pack produce into crates for delivery. Use your knowledge of division to help Max work out how many crates he needs and if there are any items left over. Show your working out for each calculation. If there is a remainder, explain what it means in the context of the story.

Word bank: dividend · divisor · quotient · remainder · short division · calculate

1. Max has 468 juicy apples. He puts them into crates that hold 12 apples each. How many full crates can Max pack? (2 marks)

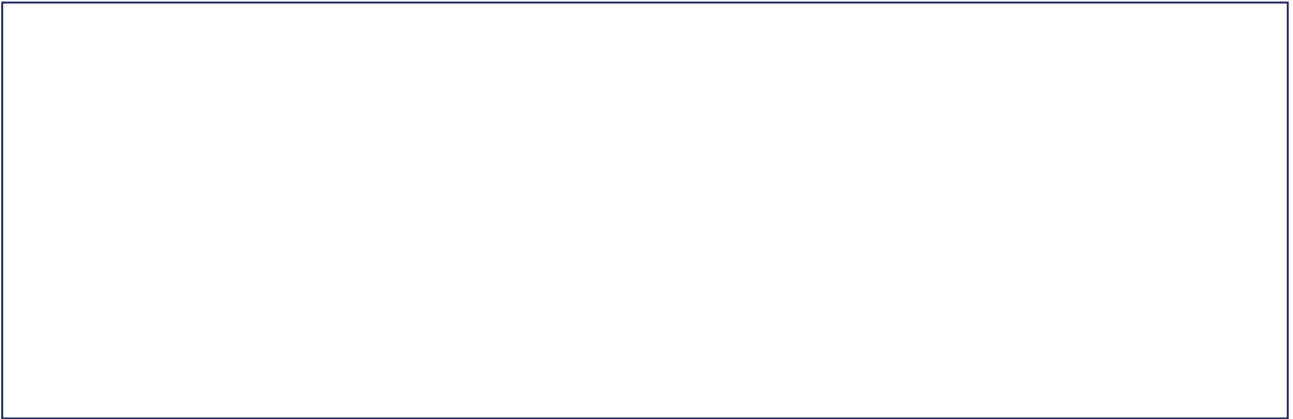
2. Max has 535 packets of seeds. He wants to share them equally between 15 community garden plots. How many packets does each plot receive and how many are left over? (2 marks)

3. A box of organic honey costs £7. Max has £850 to spend on bulk honey for the market. How many boxes can he buy? (2 marks)

4. Max is organising 942 pencils into packs of 8 for school children. How many complete packs can he make? (2 marks)

5. Max has 614 oranges. He packs them into crates of 20. How many crates will he need to hold all the oranges, including the ones that don't make a full crate? (2 marks)

Draw: Draw a picture of Max the monkey standing proudly next to his neat stacks of market crates, with a sign showing the total number of items he has organised.



Extension challenge: Max has 1,200 sunflowers to plant in rows of 25. If he decides to change the row size to 30, how many fewer rows will he need to dig? Show your mathematical reasoning.