

Max's Market Math: Division Challenges

Learning objective: To divide numbers up to 4 digits by a 1-digit number using formal written methods (short division) and interpret remainders.

Help Max the monkey organize his market stall. Use your knowledge of short division to solve these problems. Remember to show your working out clearly, including any remainders.

Max is busy setting up his fruit stall for the weekend. He has crates of fresh produce that need to be packed into smaller boxes for his customers. Max loves to solve math puzzles, and he needs your help to make sure every box is filled correctly. If there are any pieces of fruit left over, he adds them to his 'snack bowl' to share with his friends.

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

1. Max has 436 apples. He packs them into 4 crates equally. How many apples go into each crate? (2 marks)

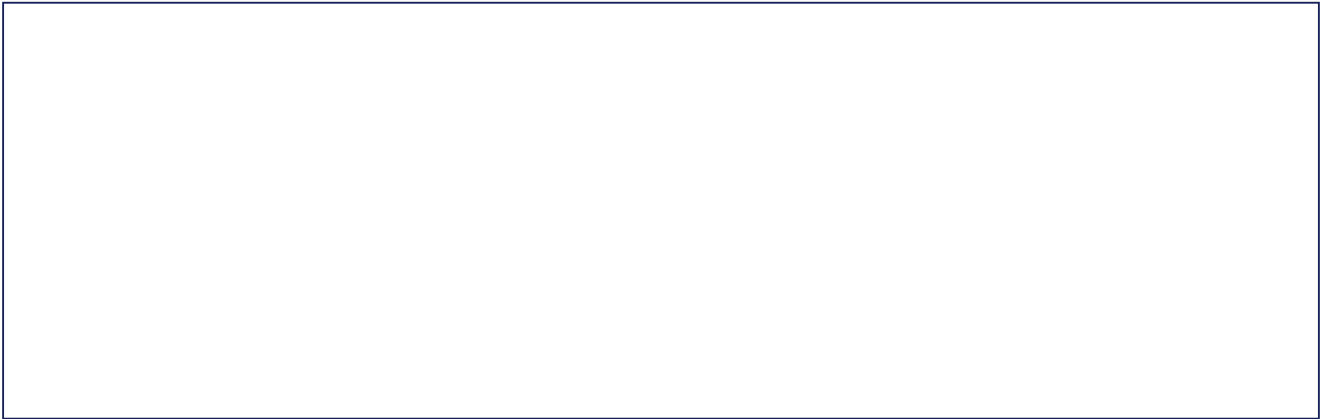
2. Max has 755 pears. He packs them into 5 boxes. How many pears go into each box, and how many are left over for the snack bowl? (3 marks)

3. A box of 8 premium peaches costs £9.68. If Max sells them individually at the same price per peach, what is the cost of one peach? (2 marks)

4. Max has 1,248 cherries to split between 6 small baskets. How many cherries go into each basket? (2 marks)

5. Explain how you know if a number can be divided by 2 without having a remainder. (2 marks)

Draw: Draw a picture of Max the monkey standing by his fruit stall. Show him carefully packing his 436 apples into the 4 crates so that each crate looks identical.



Extension challenge: Max has 2,500 plums. He wants to pack them into boxes that hold 9 plums each. How many full boxes can he make, and how many plums will be left over for the snack bowl?