

Max's Woodland Math Challenge: Division Assessment

Learning objective: To demonstrate fluency in division methods, including long division, short division, and problem-solving with remainders.

Read each question carefully. Show your working out clearly, as you may gain marks for your method even if the final answer is incorrect. Ensure your units are correct where money is involved.

Max the monkey is organising a feast for the woodland animals. He has collected 485 acorns to share equally among 5 squirrels. He also has a budget of £126 to buy supplies for the party, which he needs to divide equally between 6 different food stalls.

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

1. Using short division, calculate how many acorns each of the 5 squirrels will receive. Show your working. (3 marks)

2. Max needs to share £126 equally between 6 food stalls. How much money will each stall receive? (2 marks)

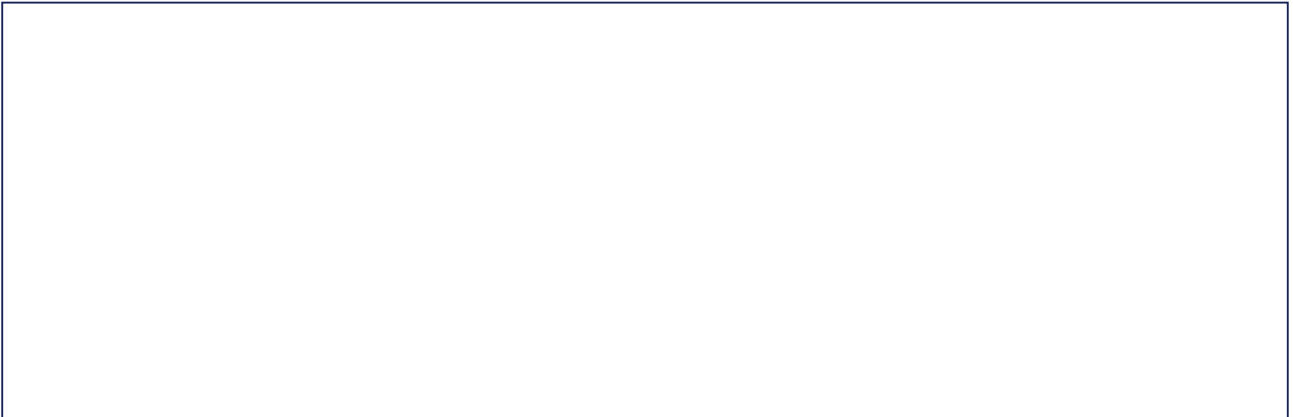
3. Calculate $4,392 \div 8$. You may use the formal written method of long division. (4 marks)

4. A baker has 745 crumpets. He packs them into boxes of 6. How many full boxes can he make, and how many crumpets will be left over? (4 marks)

5. Max finds a stash of 1,248 berries. He wants to share them between himself and his 3 best friends (4 animals in total). How many berries does each animal get? (4 marks)

6. Max says: 'If I divide a 3-digit number by a 1-digit number, the answer will always be a 2-digit number.' Is Max correct? Explain your reasoning using an example to support your answer. (5 marks)

Draw: Draw a diagram showing how Max might partition the number 485 to make it easier to divide by 5.



Extension challenge: Total: /25