

Max's Multiplication Mastery: Year 5 Assessment

Learning objective: To demonstrate fluency in multiplication tables up to 12x12 and apply knowledge of factors, multiples, and square numbers.

Read each question carefully. Show your working out where possible to earn full marks. Use a pencil to complete the assessment.

Max the monkey is busy organising his jungle shop. He needs to pack his fruit into crates, calculate the costs for the other animals, and solve number puzzles to keep his stockroom tidy.

Word bank: Product · Factor · Multiple · Square number · Array · Calculation

1. Max has 8 crates of bananas. Each crate holds 12 bananas. How many bananas does he have in total? Write the calculation and the final answer. (2 marks)

2. List all the factor pairs for the number 24. (3 marks)

3. Max is selling bags of mangoes. Each bag costs £7. If a customer buys 9 bags, what is the total cost in pounds? Show your working. (2 marks)

4. Identify which of the following numbers are square numbers: 9, 12, 16, 20, 25, 30. Explain how you know they are square numbers. (4 marks)

5. Max has a display of coconuts arranged in a grid. The display is 7 rows wide and 11 rows deep. If each coconut costs 50p, calculate the total value of the display in pounds (£). (4 marks)

6. Max says, 'If I know that $6 \times 8 = 48$, I can use this to find the answer to 6×800 .' Explain how Max can use his knowledge of place value and times tables to solve this. Provide the final answer. (5 marks)

7. Find the missing number in this sequence: 7, 14, 21, __, 35, 42. (5 marks)

Draw: Draw an array to represent the calculation 4×6 , using small circles to represent fruit.



Extension challenge: Total: /25. Challenge: Create your own word problem involving a multiplication calculation and the price of an item in pounds and pence. Write the solution on the back of this paper.