

Max the Monkey's Multiplication Challenge

Learning objective: To assess understanding of multiplication tables (3, 4, and 8) and formal written methods for multiplying two-digit numbers by one-digit numbers.

Read each question carefully. Show your working out in the space provided. Max the Monkey is counting his jungle snacks, so make sure your calculations are accurate!

Max the Monkey is busy gathering snacks for his friends. He has 4 baskets, and each basket contains 8 juicy mangoes. He also has 3 bags of peanuts, with 12 peanuts in each bag. Help Max calculate his totals!

Word bank: multiply · product · array · total · calculation · digit · repeated addition

1. Max has 4 baskets with 8 mangoes in each. Write this as a multiplication calculation and find the total number of mangoes. (2 marks)

2. Using your knowledge of the 3 times table, calculate the total number of peanuts in Max's 3 bags of 12. Show your working out. (3 marks)

3. Complete the missing numbers in this sequence: 4, 8, 12, __, 20, __, 28, 32. (2 marks)

4. Max finds 5 boxes of berries. Each box costs £3. How much did Max spend in total? Write your answer in pounds and pence. (2 marks)

5. Calculate 24×3 using the formal written method (column multiplication). Show each step clearly. (4 marks)

6. Explain why 4×6 is the same as 6×4 . You may draw an array to help your explanation. (3 marks)

7. Max wants to share 48 bananas equally between 4 of his friends. He thinks he can use multiplication to check his answer. Write a multiplication calculation that proves $48 \div 4 = 12$ and explain how you know. (4 marks)

8. Max is planning a jungle party. He needs 7 packs of party hats. Each pack costs £4. If he pays with a £50 note, how much change will he receive? Write a step-by-step account of your calculation. (5 marks)

Draw: Draw an array to represent the calculation 3×5 using small circles.

Extension challenge: Total: /25