

Max the Monkey's Jungle Factor Challenge

Learning objective: To identify factors and multiples of numbers up to 100, and recognize prime numbers.

Max the Monkey is organising his jungle pantry. He needs to group his fruit baskets based on number rules. Complete the sorting activity by deciding if the statements about the numbers in the pantry are True or False. If you think a statement is false, write the correct fact next to it.

Word bank: Factor · Multiple · Prime Number · Product · Divisible

1. Max has 12 bananas. He says, '12 is a multiple of 4.' Is this true or false? Explain your reasoning. (2 marks)

2. Max says, 'The number 7 has three factors: 1, 3, and 7.' Is this true or false? Explain your reasoning. (2 marks)

3. Max finds a box with 20 mangoes. List all the factors of 20. (2 marks)

4. Max has 15 coconuts. He says, '15 is a prime number because it is odd.' Is this true or false? Why? (2 marks)

5. Max wants to buy 3 bags of nuts costing £4 each. Is the total cost a multiple of 5? Show your working out. (2 marks)

Draw: Draw a basket of 12 apples arranged in an array (a rectangular grid) to show two different factor pairs of 12.



Extension challenge: Max has a collection of shells numbered 1 to 50. Can you find a number between 20 and 40 that has exactly three factors? Hint: Think about square numbers!