Max the Monkey’s Garden Statistics Challenge

Learning objective: To interpret and construct simple pictograms, tally charts, and block diagrams to answer questions.

Read each question carefully. Use Max the Monkey's data to help you solve these maths puzzles. Show your working out where possible.

Max the monkey is counting the fruit in his jungle garden. He finds: 5 bananas, 3 mangoes, 7 papayas, and 2 coconuts. He decides to record his findings in a chart.

Word bank: tally · pictogram · block diagram · total · fewer · more · key

1. Max uses a tally chart. Draw the tally marks for the 5 bananas and the 7 papayas. (2 marks)

2. Using Max's data, how many pieces of fruit did he find altogether? (2 marks)

3. Max makes a pictogram where one circle represents 1 piece of fruit. If he adds 2 more coconuts to his garden, how many circles will he need to draw for coconuts in total? (2 marks)

4. Look at the original numbers: 5 bananas, 3 mangoes, 7 papayas, and 2 coconuts. Which fruit is the least popular and which is the most popular? (2 marks)

5. How many more papayas does Max have than mangoes? Explain how you worked this out. (4 marks)

6. Max wants to build a block diagram. If each square represents one piece of fruit, draw a small version of the block diagram for the 3 mangoes and 5 bananas. (3 marks)

7. Extended Writing: Max finds a basket that costs £4 and a fruit bowl that costs £6. He says, 'The total cost of these items is the same as the number of papayas plus the number of coconuts.' Is Max correct? Write a paragraph explaining your answer using the data from the passage. (10 marks)

Draw: Draw a bar or block diagram showing the fruit Max collected. Make sure to label the bottom with the fruit names and the side with the numbers 0 to 8.

Extension challenge: Total: /25