Max’s Factor and Multiple Maze

Learning objective: To identify common factors and multiples and solve problems involving number properties.

Max the monkey has been collecting golden bananas for his jungle shop. To unlock the treasure chest at the end of the maze, you must guide him by correctly identifying whether each number is a factor or a multiple. For each number provided, circle whether it is a 'Factor' or 'Multiple' of the target number, and explain your reasoning.

Word bank: Factor · Multiple · Product · Divisible · Remainder

1. The target number is 12. Is 3 a factor or a multiple of 12? Explain why. (2 marks)

2. The target number is 8. Is 24 a factor or a multiple of 8? Explain why. (2 marks)

3. Max has 20 pennies to spend. List all the factors of 20. (2 marks)

4. Find the first three common multiples of 4 and 6. (2 marks)

5. Max says: 'If a number is a multiple of 10, it must also be a multiple of 5.' Is he correct? Explain your answer. (2 marks)

Draw: Draw a picture of Max the monkey standing next to a large stone archway that has the number '24' carved into it, surrounded by smaller rocks labelled with some of its factors.

Extension challenge: Challenge: Find a number that is a multiple of both 7 and 9. Is this number also a multiple of 63? Explain how you know.