

Max's Factor and Multiple Jungle Maze

Learning objective: To identify, find, and explain factors and multiples of numbers up to 100.

Max the Monkey is trying to swing through the jungle, but he can only land on the correct platforms! For each question below, help Max solve the puzzle by choosing the correct numbers from the word bank to complete the logic tasks. Show your working out clearly.

Word bank: Factor · Multiple · 6 · 8 · 12 · 24 · 48 · Prime

1. Max has 24 bananas to share equally. List all the factor pairs of 24. (Hint: there are 4 pairs). (4 marks)

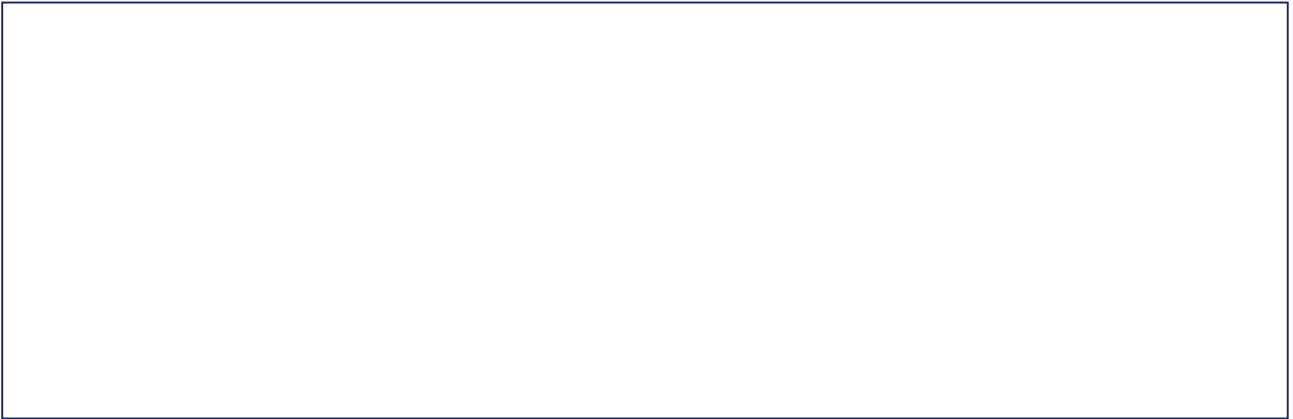
2. Max jumps on a platform that is a multiple of 6. If the number is greater than 20 but less than 30, which number is he standing on? (2 marks)

3. True or False: 8 is a factor of 48. Explain your reasoning using your knowledge of multiplication tables. (2 marks)

4. Max finds a hidden chest. The code is a number that is a multiple of 4 and a multiple of 3. It is smaller than 15. What is the number? (2 marks)

5. If Max buys 5 bunches of grapes at £6 each, is the total cost a multiple of 5? Explain how you know. (2 marks)

Draw: Draw a jungle scene where Max the Monkey is holding a sign that shows one factor pair of 12. Include trees with numbers written on the leaves.



Extension challenge: Challenge: Find a number that has more than 5 factors. Write the number in the center of your page and draw factor lines branching out to all its factors.