Max’s Prime Number Puzzle Challenge

Learning objective: To identify, recall, and apply knowledge of prime numbers up to 100, understanding the difference between prime and composite numbers.

Join Max the monkey as he hunts for prime numbers in the jungle! Read each question carefully and select or write your answer. Remember, a prime number has exactly two factors: 1 and itself.

Answer Key: 1) C, 2) True, 3) 2, 4) B, 5) False, 6) 1, 7) C, 8) True, 9) 97, 10) D. Note: 1 is neither prime nor composite because it only has one factor. 2 is the only even prime number.

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

1. 1. Max is looking for a prime number. Which of these is a prime number? A) 9, B) 15, C) 7, D) 21 (1 mark)

2. 2. True or False: Every prime number is an odd number. (1 mark)

3. 3. What is the only even prime number? (1 mark)

4. 4. Which of these is a composite number? A) 2, B) 10, C) 11, D) 13 (1 mark)

5. 5. True or False: The number 1 is a prime number. (1 mark)

6. 6. How many factors does a prime number have? (1 mark)

7. 7. Which of these is NOT a prime number? A) 19, B) 23, C) 27, D) 29 (1 mark)

8. 8. True or False: 57 is a prime number because it is odd. (Hint: check if it is divisible by 3) (1 mark)

9. 9. Max has found the largest prime number under 100. What is it? (1 mark)

10. 10. Which list contains only prime numbers? A) 3, 5, 6, 7; B) 2, 4, 8, 11; C) 13, 15, 17, 19; D) 2, 3, 5, 7 (1 mark)

Draw: Draw Max the monkey holding a sign that says 'Prime Numbers' and decorate the background with jungle leaves shaped like numbers, ensuring the prime numbers are circled.

Extension challenge: Max found a bag of 50 gold coins. If he wants to share them equally between his friends, he can only do it if the number of friends is a factor of 50. Is 50 a prime number? List all the factors of 50 to help Max decide how many friends he can invite.