

Max's Prime Number Puzzle Challenge

Learning objective: To identify, describe and recognise prime numbers up to 100.

Max the monkey is busy sorting his banana collection into prime-numbered piles! Help him solve these 10 questions to ensure his maths puzzle is perfectly balanced. Write your answers clearly.

Answer Key: 1. B (2), 2. False (1 is not prime), 3. 7, 4. True, 5. C (13), 6. False (9 is divisible by 3), 7. 11, 8. A (2, 3, 5, 7), 9. True, 10. 19.

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

1. 1. Max says the only even prime number is: A) 4, B) 2*, C) 8, D) 0 (1 mark)

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

3. 3. What is the next prime number after 5? (1 mark)

4. 4. True or False: All prime numbers have exactly two factors: 1 and themselves. (1 mark)

5. 5. Which of these is a prime number? A) 10, B) 12, C) 13*, D) 15 (1 mark)

6. 6. True or False: The number 9 is a prime number. (1 mark)

7. 7. Which prime number comes immediately before 13? (1 mark)

8. 8. Which set contains only prime numbers? A) 2, 3, 5, 7*, B) 1, 2, 3, 5, C) 3, 5, 7, 9, D) 2, 4, 6, 8 (1 mark)

9. 9. True or False: A prime number cannot be divided exactly by any other number except 1 and itself. (1 mark)

10. 10. Name a prime number between 15 and 20. (1 mark)

Draw: Draw Max the monkey holding a bunch of bananas. Label the bananas with prime numbers like 2, 3, 5, 7, and 11, and draw a separate pile for 'composite' numbers like 4, 6, and 8.



Extension challenge: Max has £20 to spend on fruit. If he buys bananas costing £2, £3, £5, or £7 each, can you find a combination of three different prime-priced bananas that total exactly £15?