Max’s Mathematical Bidmas Challenge

Learning objective: To understand and apply the order of operations (BIDMAS) to solve multi-step calculations accurately.

Max the monkey has hidden some golden bananas, but to find them, you must solve these equations using the BIDMAS rule. Remember: Brackets, Indices, Division, Multiplication, Addition, Subtraction.

Answer Key: 1. B, 2. A, 3. True, 4. 20, 5. C, 6. False, 7. 15, 8. B, 9. True, 10. 12. Explanation: Always resolve brackets first, then indices, followed by division/multiplication (left to right), and finally addition/subtraction (left to right).

Word bank: BIDMAS · Operations · Equation · Brackets · Indices · Calculation

1. 1. What does the 'I' in BIDMAS stand for? A) Integers, B) Indices*, C) Inverses, D) Intervals (1 mark)

2. 2. Solve: 5 + 3 x 2. A) 11*, B) 16, C) 10, D) 13 (1 mark)

3. 3. True or False: In the calculation (10 - 2) ÷ 2, you must do the division before the subtraction. True/False (1 mark)

4. 4. What is the value of: (3 + 7) x 2? (1 mark)

5. 5. Which part of the equation 4 + 2^2 should you solve first? A) 4 + 2, B) Addition, C) 2^2, D) All at once (1 mark)

6. 6. True or False: 20 - 4 ÷ 2 equals 8. True/False (1 mark)

7. 7. Calculate: 3 x (4 + 1). (1 mark)

8. 8. Choose the correct order: A) Add, Multiply, B) Multiply, Add*, C) Subtract, Add, D) Divide, Indices (1 mark)

9. 9. True or False: Calculations with brackets always take priority. True/False (1 mark)

10. 10. Solve: $2^2 + 8$. (1 mark)

Draw: Draw Max the monkey holding a sign that says 'BIDMAS' while sitting next to a pile of bananas labelled with different numbers.

Extension challenge: Max has £50. He buys 3 puzzles at £8 each and 2 books at £7 each. Write a single calculation using BIDMAS to find out how much money he has left. (Hint: 50 - ((3 x 8) + (2 x 7)))