

Name: \_\_\_\_\_

## Grade 7 BEDMAS Practice Test

Instructions:

1. Solve each question carefully, following the correct order of operations (BEDMAS: Brackets, Exponents, Division/Multiplication, Addition/Subtraction).
2. Show all your work for full marks.
3. Double-check your answers.

### Part A: 3-Step Questions (1 marks each)

1.  $8 + (12 \div 3) \times 4$

3.  $6 \times (3 + 2) - 8$

2.  $(15 - 5) \times 2 + 10$

4.  $20 \div 4 + (9 - 3) \times 2$

### Part B: 4-Step Questions (1 marks each)

5.  $(18 \div 3 + 4) \times 2 - 5$

6.  $10 + (6 \times 3 - 2) \div 2$

### Part C: 6-Step Questions (1 marks each)

7.  $(12 + 8 \div 4) \times 3 - (5 + 2)$

8.  $50 - [(20 \div 5) + (6 \times 2)] + 8$

### Part D: 3-Step Questions with Decimals (1 marks each)

9.  $7.5 + (3.2 \times 2) - 4.1$

10.  $(12.6 - 5.3) \div 2 + 3.8$

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**Part E: 6-Step Questions with Decimals (1 marks each)**

11.  $(8.4 \div 2) + 3.6 - 1.2 \times 6.2 + 4$

12.  $5.5 \times (2.1 + 0.9) - 3.4 + 3.6 \times 7.1$

**13. Task:** 3 marks

Create a mathematical expression that demonstrates each of the letters in BEDMAS (Brackets, Exponents, Division, Multiplication, Addition, Subtraction) at least once. Solve your own expression, showing all steps clearly.

- **Create** a mathematical expression that includes all BEDMAS components at least once.
- **Write** your question clearly
- **Solve** your expression step by step, showing your calculations and reasoning.

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2 marks

Identify the error in each of the following BEDMAS problems and correct it. Show your work.

14.  $6 + 2 \times 4 = 32$

What is the error? Explain \_\_\_\_\_

15.  $(5 + 3) \times 2 - 4 = 20$

What is the error? Explain \_\_\_\_\_

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### Answer Key

Question 1: 24

Question 2: 30

Question 3: 22

Question 4: 16

Question 5: 27

Question 6: 17

Question 7: 37

Question 8: 42

Question 9: 10.8

Question 10: 7.55

Question 11: 4.36

Question 12: 38.66

Question 14: **Error:**

The order of operations (BEDMAS) was not followed. Multiplication should be performed before addition.

**Correct Solution:**

$$6+2\times 4$$

$$=6+8$$

$$=14$$

Question 15: **Error:**

The subtraction was performed before the multiplication. Parentheses and multiplication should have been prioritized.

**Correct Solution:**

$$(5+3)\times 2-4$$

$$=8\times 2-4$$

$$=16-4$$

$$=12$$