



**Strand 2.0 — ALGEBRA**

**Sub-strand 2.1 — Algebraic Expressions**

**INSTRUCTIONS:** SECTION A: Choose the correct answer and shade the correct option. (20 × 1 = 20 marks)
SECTION B: Answer all questions. Show full working. (30 questions totaling 80 marks)

**SECTION A — Multiple Choice (20 marks)**

1. A farmer bought x bags of maize. Each bag weighs (x + 2) kg. The total weight in kg is:
   A. x + 2  B. x(x + 2)
   C. x + 2x  D. $(x + 2)^2$
2. Simplify: (3a + 4a) − 2a =
   A. 5a  B. 3a  C. 7a  D. 2a
3. Evaluate when x = 2: 4(x + 3) =
   A. 14  B. 20  C. 8  D. 10
4. Which expression represents the perimeter of a triangle with sides

   (x + 3), (x + 3) and (2x + 1)?

   A. 4x + 7  B. 3x + 7  C. 2x + 7  D. 5x + 7

5. Simplify: 5x ÷ x = (assuming $x \neq 0$)
   A. 5  B. x  C. 1  D. 0
6. The length of a rectangle is (2x + 3) cm and its width is (x − 1) cm. Area =
   A. 2x + 3x − 3  B. (2x + 3)(x − 1)
   C. $2x^2 + 3x - 2x - 3$  D. Both B and C
7. Expand: 3(x + 4) =
   A. 3x + 4  B. 3x + 12
   C. x + 12  D. 3x4
8. Simplify: (6y ÷ 2) + 3 =
   A. 3y + 3  B. 6y + 3  C. 3y ÷ 3  D. 6(y + 3)/2
9. A cuboid has length (x + 2), width 3 cm and height 2 cm. calculate its Volume.
   A. 6x + 12
   B. (x + 2) × 3 × 2
   C. 6(x + 2)
   D. All of the above
10. Combine like terms: 7m − 2m + 5 =
    A. 5m + 5  B. 5m − 5  C. 9m + 5  D. 10m
11. Which expression is simplified form of (x + x + x + 2)?
    A. 3x + 2  B. x + 2  C. 4x  D. 2x + 1

WORKING SPACE



