

COLLEGE PRIVE BILINGUE MONTESQUIEU
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REPUBLIC OF CAMEROON
Peace – Work- Fatherland

YAOUNDE

ANNEE SCOLAIRE 2026/2027

MATHEMATICS – FORM 3
END OF UNIT ASSESSMENT – SIMPLE ALGEBRA

Competency-Based Approach (APC)

Time: 1 hour 30 minutes

Total: 40 marks

Name: _____ Class: _____

Date: _____

GENERAL INSTRUCTIONS

- Answer all questions.
- For Section A, choose the correct answer A, B, C or D.
- For Section B, show clearly all your working. Answers without sufficient working may not receive full marks.
- Simplify your answers where necessary.

SECTION A: MULTIPLE CHOICE QUESTIONS (10 marks)

Choose the correct answer. Each question carries 1 mark.

1. Simplify: $3x + 5x - 2x$.

A. $6x$ B. $10x$ C. $4x$ D. 6

2. Simplify: $4a + 3b - 2a + b$.

A. $2a + 4b$ B. $6a + 2b$ C. $2a + 2b$ D. $4a + 4b$

3. Expand: $3(x + 4)$.

A. $3x + 4$ B. $3x + 12$ C. $x + 12$ D. $7x$

4. Expand: $(x + 3)(x + 2)$.

A. $x^2 + 5x + 6$ B. $x^2 + 6$ C. $x^2 + 5x + 5$ D. $x^2 + x + 6$

5. Factorise: $6x + 12$.

A. $6(x + 2)$ B. $6(x + 12)$ C. $2(3x + 12)$ D. $12(x + 6)$

6. Factorise: $x^2 + 7x + 12$.

A. $(x + 3)(x + 4)$ B. $(x + 2)(x + 6)$ C. $(x - 3)(x - 4)$ D. $(x + 1)(x + 12)$

7. Factorise: $x^2 - 25$.

A. $(x - 5)^2$ B. $(x + 5)^2$ C. $(x - 5)(x + 5)$ D. $(x - 25)(x + 1)$

8. Solve: $3x + 5 = 20$.

A. $x = 3$ B. $x = 5$ C. $x = 7$ D. $x = 25$

9. Which expression is the expansion of $2(x - 3)$?

A. $2x - 3$ B. $2x - 6$ C. $x - 6$ D. $2x + 6$

10. Factorise: $x^2 - 9x + 20$.

A. $(x - 4)(x - 5)$ B. $(x + 4)(x + 5)$ C. $(x - 2)(x - 10)$ D. $(x + 2)(x - 10)$

SECTION B: STRUCTURAL QUESTIONS (30 marks)

Show all your working clearly. Give your final answers in their simplest form.

11. Simplification of algebraic expressions (5 marks)

a) Simplify: $7x + 4x - 3x$. (2 marks)

b) Simplify: $5a + 3b - 2a + 4b$. (2 marks)

c) Simplify: $6p - 2q + 3p + 5q$. (1 mark)

12. Expansion of algebraic expressions (5 marks)

a) Expand: $4(x + 3)$. (2 marks)

b) Expand: $3(2y - 5)$. (2 marks)

c) Expand: $(x + 4)(x + 2)$. (1 mark)

13. Factorisation of algebraic expressions (5 marks)

a) Factorise: $8x + 16$. (2 marks)

b) Factorise: $12a - 18$. (2 marks)

c) Factorise: $5m^2 + 10m$. (1 mark)

14. Factorising quadratic trinomials (5 marks)

a) Factorise: $x^2 + 7x + 12$. (2 marks)

b) Factorise: $x^2 + 9x + 20$. (2 marks)

c) Factorise: $x^2 - 5x + 6$. (1 mark)

15. Difference of two squares (5 marks)

a) Factorise: $x^2 - 16$. (2 marks)

b) Factorise: $9y^2 - 25$. (2 marks)

c) Factorise: $49a^2 - 1$. (1 mark)

16. Solving simple linear equations (5 marks)

a) Solve: $2x + 7 = 19$. (2 marks)

b) Solve: $5y - 4 = 21$. (2 marks)

c) Solve: $3a + 2 = 14$. (1 mark)

END OF PAPER