ENGLAND GCSE MATHS EDEXCEL FOUNDATION · UNIT 3 · 10 QUESTIONS

# Algebra, Notation, Vocabulary and Manipulation — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

**1** **A tennis ball costs a pounds. The total cost, in pounds, of 5 tennis balls is**

- **A** $a^5$
- **B** $5a^2$
- **C** 5a
- **D** a + 5

Understand It with Pulse | Flag a mistake

2 **Write in its simplest form 2a + 4b + 4a - b, where a is the number of red apples and b is the number of lemons.**

- A 6a
- B 6a + 5b
- C 6a + 3b
- D 3b

Understand It with Pulse | Flag a mistake

3 **Write an expression for 5 less than 3 times a number x**

- A 5 - 3x
- B 3x - 5
- C 3x + 5
- D 5x - 3

Understand It with Pulse | Flag a mistake

**4** **Factorise $x^2 - 4x + 3$**

- A $(x + 3)(x + 1)$
- B $(x - 3)(x - 1)$
- C $(x + 3)(x - 1)$
- D $(x - 3)(x + 1)$

Understand It with Pulse | Flag a mistake

**5** **If $x = 4$, the value of $4x^2 - 5$ is**

- A 69
- B 59
- C 91
- D 11

Understand It with Pulse | Flag a mistake

6 **Write in its simplest form $\frac{4x}{4}$**

A $\frac{x}{2}$

B $x$

C $x^2$

D $2x$

Understand It with Pulse | Flag a mistake

7 **$(x^4)^3$ is equal to**

A $x^{64}$

B $x^7$

C $x^{13}$

D $x^{12}$

Understand It with Pulse | Flag a mistake

**8** **Multiply out $(x + 4)^2$**

- A $x^2 + 8x - 16$
- B $x^2 + 4x + 16$
- C $x^2 + 8x + 16$
- D $x^2 + 16$

Understand It with Pulse | Flag a mistake

**9** **The height of a rocket, in metres, after t seconds is $h = 20t - 5t^2$. When $t = 2$, the height is**

- A 20
- B 15
- C 25
- D 40

Understand It with Pulse | Flag a mistake

10 **Multiply out 2x(4x - 2)**

A $8x^2 - 2x$

B $6x^2 - 4x$

C $8x^2 - 4x$

D $8x^2 + 4x$

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | C | **5.** | B | **9.** | A |
| **2.** | C | **6.** | B | **10.** | C |
| **3.** | B | **7.** | D | | |
| **4.** | B | **8.** | C | | |

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