ENGLAND GCSE MATHS AQA 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 **The height of a rocket, in metres, after t seconds is $h = 25t - 5t^2$. When $t = 3$, the height is**

- A 75
- B 35
- C 25
- D 30

Understand It with Pulse | Flag a mistake

2 **Simplify 3p + 3b + 3p - b, where p is the number of paintbrushes and b is the number of hardcover books.**

A 2b

B 6p

C 6p + 4b

D 6p + 2b

Understand It with Pulse | Flag a mistake

3 **$x^3 \times x^4$ is equal to**

A x^8

B x^1

C x^{12}

D x^7

Understand It with Pulse | Flag a mistake

4 **Write an expression for 8 less than 4 times a number x**

A 4x - 8

B 8x - 4

C 8 - 4x

D 4x + 8

Understand It with Pulse | Flag a mistake

5 **A sandwich costs s pounds. The cost, in pounds, of 4 sandwiches and a £2 drink is**

A 4s + 2

B 4s - 2

C 4(s + 2)

D 5s + 2

Understand It with Pulse | Flag a mistake

6 **If x = 4, the value of $3x^2 - 4$ is**

A 44

B 52

C 8

D 68

Understand It with Pulse | Flag a mistake

7 **Factorise $x^2 - 9x + 20$**

A $(x + 5)(x + 4)$

B $(x - 5)(x + 4)$

C $(x + 5)(x - 4)$

D $(x - 5)(x - 4)$

Understand It with Pulse | Flag a mistake

8 **Expand 3x(4x - 3)**

A $12x^2 + 9x$

B $12x^2 - 3x$

C $12x^2 - 9x$

D $7x^2 - 9x$

Understand It with Pulse | Flag a mistake

9 **Simplify 3a + 3b + 2a - 2b, where a is the number of red apples and b is the number of lemons.**

A 5a

B 5a + b

C b

D 5a + 5b

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10

Expand (x - 5)(x - 3)

A $x^2 + 8x + 15$

B $x^2 - 2x + 15$

C $x^2 - 8x - 15$

D $x^2 - 8x + 15$

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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