ENGLAND GCSE MATHS EDEXCEL HIGHER · 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 3 tennis balls is**

- **A** $3a$
- **B** $3a^2$
- **C** $a + 3$
- **D** a^3

Understand It with Pulse | Flag a mistake

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

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

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3 **A sandwich costs s pounds. The cost, in pounds, of 6 sandwiches and a £3 drink is**

- A 6s + 3
- B 6s - 3
- C 6(s + 3)
- D 7s + 3

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

A 2

B 6

C 14

D 10

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5 **Factorise $20x^2 - 80x$**

A $5(x^2 - 4x)$

B $20x(x + 4)$

C $20x(x - 4)$

D $x(20x - 4)$

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6 **Write in its simplest form $x^2 - 16/x + 4$**

A x - 4

B x + 4

C x - 5

D $x^2 - 4$

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7 **Given f(x) = x + 2 and g(x) = 4x, the value of (g ° f)(5) is**

A 18

B 13

C 28

D 22

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8 **Write in its simplest form** $\frac{12x}{12}$

A 2x

B $\frac{x}{2}$

C x

D x^2

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9 **Write an expression for 4 less than 5 times a number x**

A 5x + 4

B 5x - 4

C 4 - 5x

D 4x - 5

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10 **Write in its simplest form 3p + 4b + 4p - 2b, where p is the number of paintbrushes and b is the number of hardcover books.**

A 7p + 6b

B 7p

C 7p + 2b

D 2b

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ANSWER KEY

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

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