ENGLAND GCSE MATHS OCR 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 sandwich costs s pounds. The cost, in pounds, of 5 sandwiches and a £1 drink is**

- A 5s - 1
- B 5s + 1
- C 5(s + 1)
- D 6s + 1

Understand It with Pulse | Flag a mistake

2 **Give your answer in its simplest form 3a + 3b + 4a - b, where a is the number of red apples and b is the number of lemons.**

- A 7a + 4b
- B 7a
- C 2b
- D 7a + 2b

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3 **Give your answer in its simplest form 4p + 5b + 2p - b, where p is the number of paintbrushes and b is the number of hardcover books.**

- A 6p + 4b
- B 6p
- C 6p + 6b
- D 4b

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4 **Expand $(x + 5)^2$**

- A $x^2 + 5x + 25$
- B $x^2 + 25$
- C $x^2 + 10x + 25$
- D $x^2 + 10x - 25$

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5 **A tennis ball costs a pounds. The total cost, in pounds, of 6 tennis balls is**

- A $6a$
- B a^6
- C $a + 6$
- D $6a^2$

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6 **Factorise $x^2 + 9x + 18$**

- A $(x + 6)(x + 3)$
- B $(x + 6)(x - 3)$
- C $(x - 6)(x + 3)$
- D $(x - 6)(x - 3)$

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7 **$(x^4)^2$ is equal to**

- A x^8
- B x^6
- C x^{16}
- D x^9

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8 **Expand (x - 4)(x + 2)**

- A $x^2 - 2x - 8$
- B $x^2 - 6x - 8$
- C $x^2 - 2x + 8$
- D $x^2 + 2x - 8$

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9 **Factorise $25x^2 - 125x$**

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

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10 **Give your answer in its simplest form 5a + 4b - a + 4b**

A 4a + 8b

B 4b + 8a

C 6a + 8b

D 4a

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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