ENGLAND GCSE MATHS EDEXCEL HIGHER · UNIT 5 · 10 QUESTIONS

Algebra, Equations and Inequalities — 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 cup of coffee costs x pounds. 3 cups of coffee cost £12. The value of x is**

- **A** £12
- **B** £5
- **C** £4
- **D** £3

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2 **A guitar costs x pounds. Two guitars and a £20 case cost £130. The value of x is**

- **A** £55
- **B** £50
- **C** £110
- **D** £60

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3 **Write $x^2 + 12x + 40$ in the form $(x + p)^2 + q$**

- **A** $(x + 6)^2 - 4$
- **B** $(x + 6)^2 + 40$
- **C** $(x + 6)^2 + 4$
- **D** $(x - 6)^2 + 4$

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4 **Solve $x^2 + 6x + 9 = 0$**

- **A** x = -3 or x = -3
- **B** x = 3 or x = 4
- **C** x = 3 or x = 3
- **D** x = 3

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5 **Solve $3x + 6 = x + 22$**

- **A** x = 9
- **B** x = 10
- **C** x = 7
- **D** x = 8

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6 **Two hardcover books and one calculator cost £13. One hardcover book and two calculators cost £14. The cost of one calculator is**

A £6

B £7

C £5

D £4

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7 **Solve 2x + 5 = 13**

A x = 5

B x = 3

C x = 6

D x = 4

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8 **Solve 5(x + 5) = 35**

- **A** x = 2
- **B** x = 7
- **C** x = 1
- **D** x = 4

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9 **A sandwich costs x pounds. 4 sandwiches cost £16. The value of x is**

- **A** £5
- **B** £4
- **C** £16
- **D** £3

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10 **A tennis ball costs x pounds. A tube of 4 tennis balls costs £8. The value of x is**

A £3

B £1

C £2

D £8

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ANSWER KEY

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

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