ENGLAND GCSE MATHS EDEXCEL FOUNDATION · 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 **Two hardcover books and one calculator cost £11. One hardcover book and two calculators cost £10. The cost of one calculator is**

A £3

B £2

C £4

D £5

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2 **A guitar costs x pounds. Two guitars and a £10 case cost £130. The value of x is**

- A £55
- B £60
- C £120
- D £65

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3 **A bicycle costs x pounds. After a £25 discount it costs £80. The value of x is**

- A £55
- B £115
- C £105
- D £80

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4 **Solve 7x + 6 = 69**

A x = 10

B x = 9

C x = 8

D x = 11

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5 **A cup of coffee costs x pounds. 3 cups of coffee cost £15. The value of x is**

A £6

B £5

C £4

D £15

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6 **Solve the inequality 2x + 8 < 20**

A x > 6

B x < 7

C x < 6

D x ≤ 6

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7 **Solve 6(x + 5) = 78**

A x = 8

B x = 13

C x = 10

D x = 7

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8 **Which inequality is shown by the integers x that satisfy x > 3 and x ≤ 7?**

- **A** x > 3
- **B** 3 < x < 7
- **C** 3 < x ≤ 7
- **D** 3 ≤ x < 7

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9 **The formula v = u + at gives v = 20 when u = 2, a = 3 and t = 6. Rearrange the formula to make t the subject.**

- **A** t = v + u/a
- **B** t = (v - u) × a
- **C** t = v - u - a
- **D** t = v - u/a

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10 **Solve the simultaneous equations x + y = 9, x - y = -7**

A x = 1, y = 9

B x = 2, y = 8

C x = 8, y = 1

D x = 1, y = 8

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ANSWER KEY

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

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