ENGLAND GCSE MATHS AQA 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 **A bicycle costs x pounds. After a £25 discount it costs £120. The value of x is**

- **A** £120
- **B** £95
- **C** £145
- **D** £155

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2 **A guitar costs x pounds. Two guitars and a £25 case cost £115. The value of x is**

- A £90
- B £40
- C £45
- D £50

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3 **Two hardcover books and one calculator cost £19. One hardcover book and two calculators cost £17. The cost of one calculator is**

- A £4
- B £6
- C £5
- D £7

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4 **Solve 3x + 5 = 29**

A x = 9

B x = 10

C x = 8

D x = 7

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5 **A number multiplied by 6, plus 7, is 55. What is the number?**

A 9

B 8

C 7

D 10

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6 **Solve the simultaneous equations x + y = 10, x - y = 4**

A x = 7, y = 4

B x = 7, y = 3

C x = 3, y = 7

D x = 8, y = 3

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7 **Solve the inequality 2x + 1 < 7**

A x > 3

B x ≤ 3

C x < 4

D x < 3

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8 **The formula v = u + at gives v = 23 when u = 7, a = 4 and t = 4. 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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9 **Which inequality is shown by the integers x that satisfy x > 5 and x ≤ 9?**

- **A** $5 < x \leq 9$
- **B** $5 \leq x < 9$
- **C** $5 < x < 9$
- **D** $x > 5$

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10 **Solve 6x + 4 = 5x + 7**

A x = 2

B x = 3

C x = 1

D x = 4

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ANSWER KEY

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

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