GCSE Maths Algebra Practice

Level: GCSE **Subject:** Maths

Exam-style algebra practice for GCSE students. Show clear working for each question.

Simplify

- 3x + 5x =
- 7a - 2a + 4 =
- 4p + 3q - p + 2q =

Expand and Factorise

- Expand: 3(x + 5)
- Expand: 2x(4x - 3)
- Factorise: 6x + 12
- Factorise: x^2 + 5x

Solve

- 2x + 7 = 19
- 5y - 4 = 31
- 3(a + 2) = 21
- x/4 + 3 = 8

Challenge

- A rectangle has length x + 5 and width x. Its area is 84. Form and solve an equation to find x.

Answer Guidance

Use this section for self-marking or tutor-led feedback. Award partial credit for correct method, clear reasoning and accurate use of terminology.

Answers

1 8x

2 5a + 4

3 3p + 5q

4 3x + 15

5 8x^2 - 6x

6 6(x + 2)

7 x(x + 5)

8 x = 6

9 y = 7

10 a = 5

11 x = 20

12 x(x + 5)=84, so x^2 + 5x - 84=0, x=7