

# Simplify/Expand/Factorise

## Question Paper 4

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Equations, Formulae and Identities
Sub Topic	Simplify/Expand/Factorise(Algebraic manipulation)
Booklet	Question Paper 4

**Time Allowed:** 18 minutes

**Score:** /15

**Percentage:** /100

**Grade Boundaries:**

9	8	7	6	5	4	3	2	1
>90%	80%	70%	60%	50%	40%	30%	20%	10%

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- 1 (a) Solve  $6t - 5 = 2t + 9$   
Show clear algebraic working.

$$t = \dots\dots\dots$$

(3)

- (b) Expand and simplify  $3(2y + 2) + 2(y - 4)$

$$\dots\dots\dots$$

(2)

- (c) Simplify fully  $4wxy \div (8xy)$

$$\dots\dots\dots$$

(2)

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**(Total for Question 1 is 7 marks)**

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2 (a) Solve  $2y + \frac{2 - 3y}{4} = \frac{1}{4}$

Show clear algebraic working.

$y = \dots\dots\dots$   
(3)

(b) Factorise  $3x^2 - 8x - 3$

$\dots\dots\dots$   
(2)

(c) Expand and simplify  $4x(x + 3) - (2x - 3)^2$

$\dots\dots\dots$   
(3)

**(Total for Question 2 is 8 marks)**