

# Simplifying Algebra

## Question Paper

|             |                     |
|-------------|---------------------|
| Level       | GCSE                |
| Subject     | Maths               |
| Exam Board  | Edexcel GCSE        |
| Topic       | Simplifying Algebra |
| Grade Level | Grade 1/2           |
| Booklet     | Question Paper      |

**Time Allowed:** 88 minutes

**Score:** /73

**Percentage:** /100

**Grade Boundaries:**

1. Simplify

(i)  $c + c + c + c$

.....

(ii)  $p \times p \times p \times p$

.....

(iii)  $3g + 5g$

.....

(iv)  $2r \times 5p$

.....

(4)  
(Total 4 marks)

2. (a) Simplify  $5p + 2q - 3p - 3q$

.....

(2)

(b) Simplify

(i)  $3g + 5g$

.....

(ii)  $2r \times 5p$

.....

(2)  
(Total 4 marks)

3. (a) Simplify  $y + y$

.....

(1)

(b) Simplify  $p^2 + p^2 + p^2$

.....

(1)  
(Total 2 marks)

4. Simplify

(a)  $c + c + c$

.....

(1)

(b)  $e + f + e + f + e$

.....

(1)

(c)  $2a + 3a$

.....

(1)

(d)  $2xy + 3xy - xy$

.....

(1)

(e)  $3a + 5b - a + 2b + 8$

(2)

**(Total 6 marks)**

5. (a) Simplify

$$2x \times y \times 3$$

.....

(1)

(b) Simplify

$$5x + 3y - 2x + y$$

.....

(2)

(c) Simplify

$$y \times y \times y$$

.....

(1)

**(Total 4 marks)**

6. (a) Simplify  $5bc + 2bc - 4bc$

.....

(1)

(b) Simplify  $4x + 3y - 2x + 2y$

.....

(2)

(c) Simplify  $m \times m \times m$

.....

(1)

(d) Simplify  $3n \times 2p$

.....

(1)

**(Total 5 marks)**

7. (a) Simplify  $a + a + a + a$

.....

(1)

(b) Simplify  $3 \times b \times 4$

.....

(1)

(c) Simplify completely  $4a + 5b - 2a + b$

.....

(2)

**(Total 4 marks)**

8. (a) Simplify  $2a + 7b - 3b + a$

.....

(2)

(b) Simplify  $x^3 + x^3$

.....

(1)

**(Total 3 marks)**

9. (a) Simplify  $4p \times 5q$

..... (1)

(b) Simplify  $d \times d \times d \times d$

..... (1)

**(Total 2 marks)**

10. Simplify

(i)  $5g - 2g$

..... (1)

(ii)  $p \times p$

..... (1)

**(Total 2 marks)**

11. (a) Simplify  $3p + 2q - p + 2q$

..... (2)

(b) Simplify  $3y^2 - y^2$

..... (1)

(c) Simplify  $5c + 7d - 2c - 3d$

..... (2)

(d) Simplify  $4p \times 2q$

..... (1)

**(Total 6 marks)**

12. (a) Simplify  $d + d + d + d + d$

..... (1)

(b) Simplify  $y^2 + y^2$

..... (1)

(c) Simplify

(i)  $3a + 4b - 2a - b$

..... (2)

(ii)  $5x^2 + 2x - 3x^2 - x$

..... (2)

**(Total 6 marks)**

13. (a) Simplify  $4x + 7y + 2x - 3y$

..... (2)

(b) Simplify  $2pq + pq$

..... (1)

**(Total 3 marks)**

14. (a) Simplify

(i)  $e + f + e + f + e$

..... (1)

(ii)  $p^2 + p^2 + p^2$

..... (1)

**(Total 2 marks)**

15. (a) Simplify

(i)  $e + f + e + f + e + f + e$

.....  
(1)

(ii)  $p^2 + p^2 + p^2$

.....  
(1)  
**(Total 2 marks)**

16. (a) Simplify  $2x + 2x$

.....  
(1)

(b) Simplify  $5y - 2y$

.....  
(1)

(c) Simplify  $2 \times 4p$

.....  
(1)

**(Total 3 marks)**

17. (a) Simplify  $c + c + c$

.....  
(1)

(b) Simplify  $2e \times 3f$

.....  
(1)

(c) Simplify  $9p + 2t - 2p + 3t$

.....  
(2)

**(Total 4 marks)**