

**YEAR 7**

Introduction to Algebra

Algebra is just arithmetic with letters standing in for numbers. Collect like terms, expand carefully, and substitute exactly as written.

Section A · Simplifying

1 $3a + 5a$ **$8a$**

2 $7b - 2b$ **$5b$**

3 $4x + 3y + 2x$ **$6x + 3y$**

4 $5m + 2 + 3m + 7$ **$8m + 9$**

5 $10p - 4p + p$ **$7p$**

Section B · Expanding brackets

1 $3(x + 4)$ **$3x + 12$**

2 $5(2y - 1)$ **$10y - 5$**

3 $2(3a + 4)$ **$6a + 8$**

4 $4(x - 6)$ **$4x - 24$**

Section C · Substitution

1 $2x + 5$ **13**

2 $3y - 2$ **7**

3 xy **12**

4 $x^2 + y$ **19**

5 $5(x - y)$ **5**

