YEAR 7 · ALGEBRA

Simplifying Algebraic Expressions

Name _____ **Date** _____

Simplify each expression by collecting like terms. Write your answer on the line.

A One variable and constants

Collect the terms with the same letter

1 $3a + 5a$

2 $9m - 4m$

3 $7x + 2 + 3x$

4 $8y - 3 + 2y + 7$

5 $6p + 2p - 5$

6 $11c - 3c + 4$

7 $5t + 2 - t + 6$

8 $4k + 3k - 2k$

B Expressions with two variables

Keep different letters separate

9 $6p + 4q + 2p$

10 $5a + 3b + 2a - b$

11 $4x + 3y + 2x + 5y$

12 $10m - 3n - 4m + n$

13 $6a + 2b - 3a + 5b$

14 $7p - 2q + p + 6q$

C Challenge: longer expressions

Collect all like terms

15 $3x + 4 + 5x - 9$

16 $12r - 5s - 7r + 2s + 3$

17 $9x - 2y + 4 - 3x + 5y - 1$

18 $5m + 2n - 3m + 4n + m$

Explain your thinking

Choose one question above. How did you decide which terms were like terms?