



# 2.7 – Expanding brackets

Student name: \_\_\_\_\_ Score: \_\_\_\_\_

1. Expand the brackets and simplify.

(a)  $2x^2(3x + 5xy)$

$6x^3 + 10x^3y$

..... [2]

(b)  $(2a - 3b)(a - 2b)$

$2a^2 - 7ab + 6b^2$

..... [3]

2. Expand.

$x^3(x^2 + 3)$

$x^5 + 3x^3$

..... [2]

3. Simplify  $4(2x - 1) - 3(x - 2)$ .

$5x + 2$

..... [2]

4. Expand the brackets and simplify.

$(2x - 3y)(3x - 4y)$

$6x^2 - 17xy + 12y^2$

..... [3]

5. Expand and simplify.

(a)  $-3x(2 - x) - (3x^2 - 7)$

$7 - 6x$

..... [2]

(b)  $(5x - 3y)(2y - 5x)$

$25xy - 25x^2 - 6y^2$

..... [3]

6. Expand the brackets.

$x^2(x^3 - 7)$

$x^5 - 7x^2$

..... [2]

7. Expand the brackets and simplify.

$2(3x - 4) - 3(2x - 3)$

$1$

..... [2]

8. Expand.

$x(x^3 - 4x)$

$x^4 - 4x^2$

..... [2]

9. Expand the brackets and simplify.

$(4x - 3y)(2x - 5y)$

$8x^2 - 26xy + 15y^2$

..... [3]



10. Expand the brackets and simplify.

(a)  $3x(4 - 5x) - 5x(3x + 2)$

$2x - 30x^2$  ..... [2]

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

$12x^2 + 5xy - 2y^2$  ..... [3]

11. Expand and simplify.

$(2p - 7q)(p + q)$

$2p^2 - 5pq - 7q^2$  ..... [2]

12. Expand the brackets and simplify.

$(3x - 5y)(5x - 3y)$

$15x^2 - 34xy + 15y^2$  ..... [3]

13. Expand and simplify  $5(2x + 3y) - 3(4y - 2x)$ .

$16x + 3y$  ..... [2]

14. Expand and simplify.

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

$9x + 10y$  ..... [2]

15. Expand the brackets and simplify.

$2(3x - 1) + 3(1 - 2x)$

$1$  ..... [2]

16. Expand.

$3(2x - 1)$

$6x - 3$  ..... [1]

17. Expand the brackets and simplify.

$(3a - 5b)(2a - 3b)$

$6a^2 - 19ab + 15b^2$  ..... [3]

18. Expand the brackets and simplify.

$5x(2 - 3x) - 3x(3x - 2)$

$-24x^2 + 16x$  ..... [2]



19. Expand.

$$3(x - 2y)$$

$$\dots\dots\dots 3x - 6y \dots\dots\dots [1]$$

20. Expand the brackets and simplify.

(i)  $5(2 - p) - 3(3 + 2p)$

$$\dots\dots\dots 1 - 11p \dots\dots\dots [2]$$

(ii)  $(7g - 2h)(3g + 11h)$

$$\dots\dots\dots 21g^2 + 71gh - 22h^2 \dots\dots\dots [3]$$

