



Expanding Single Brackets

Exam Style Questions

1. Expand the following brackets.

(a) $2(x + 3)$

$2x + 6$ (1)

(b) $9(2a + 3b)$

$18a + 27b$ (1)

(c) $8(x + 11y)$

$8x + 88y$ (1)

(d) $3(a + 3b + c)$

$3a + 9b + 3c$ (1)

(e) $-3(2a + 3c)$

$-6a - 9c$ (1)

(f) $-6(3a - 4c)$

$-18a + 24c$ (1)



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(g) $x(x + 8)$

$$\underline{x^2 + 8x} \quad (1)$$

(h) $2x(2x + 3)$

$$\underline{4x^2 + 6x} \quad (1)$$

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

$$\underline{2a^2 - 3ab} \quad (1)$$

(i) $-5xy(x + y)$

$$\underline{-5x^2y - 5xy^2} \quad (1)$$

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

$$\underline{x^3 + 3x^2} \quad (1)$$

(k) $xy(x + y + z)$

$$\underline{x^2y + xy^2 + xyz} \quad (1)$$

(l) $3a^3(a + b)$

$$\underline{3a^4 + 3a^3b} \quad (1)$$



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(m) $-p(-q - 3)$

$pq + 3p$ (1)

(n) $11x^2y(x - 3y)$

$11x^3y - 33x^2y^2$ (1)

2. Expand and simplify the following expressions.

(a) $9(2a + 3b) + 4(3a + b)$

$18a + 27b + 12a + 4b$

$30a + 31b$ (2)

(b) $4(3a + 3b) - 5(a - b)$

$12a + 12b - 5a + 5b$

$7a + 17b$ (2)

(c) $2(12a - b) - 3(2a + 11b)$

$24a - 2b - 6a - 33b$

$18a - 35b$ (2)



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

$$a^2 - 2ab - 3a^2 + 2ab$$

$$-2a^2$$

$$\dots\dots\dots -2a^2 \dots\dots\dots$$

(2)

(e) $x(ax + by) + c(x + d)$

$$ax^2 + bxy + cx + cd$$

(2)

(f) $3x^2(x - 1) - 5x(3x - 1)$

$$3x^3 - 3x^2 - 15x^2 + 5x$$

$$3x^3 - 18x^2 + 5x$$

(2)
