

Master Maths 8 Worksheet 24  
Expansion and Factorisation

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Name: \_\_\_\_\_

1. Expand the following expressions.

(a)  $3(x + 5)$

(b)  $4(a - 3)$

(c)  $2(m + n)$

(d)  $6(5 - p)$

(e)  $a(b + 4)$

(f)  $3(2a + 1)$

(g)  $5x(3y - 2z)$

(h)  $2m(3m + 4n)$

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

(j)  $-2(5 - 4y)$

(k)  $-6n(2n - 7)$

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

2. Expand and simplify the following expressions.

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

(b)  $3(2m + 5) + 2(4m - 3)$

(c)  $5(2c - 3) + 2(3c - 6)$

(d)  $3(6 - 5n) + 4(2 + n)$

(e)  $4(2p + 5) - 3(3p + 4)$

(f)  $6(2x - 3y) - 3(4x - 3y)$

3. Factorise the following expressions.

(a)  $4a + 12$

(b)  $5m - 15$

(c)  $8x + 20$

(d)  $10n - 35$

(e)  $27p + 18q$

(f)  $24x - 36y$

(g)  $a^2 + 5a$

(h)  $4xy - 6x$

(i)  $5m - 15m^2$

(j)  $12a^2 + 18ab$

(k)  $28m - 35m^2n$

(l)  $-18x^2y - 24xy$