



EXPANDING A BRACKET

NUMERICAL FACTORS

Ref: G226. **1S1**

A1 Expand: $7(m+3)$	A2 Expand: $4(m-4)$	A3 Expand: $8(m+n)$	A4 Expand: $9(m+n-3)$
B1 Expand: $2(3p+7)$	B2 Expand: $3(p+2q)$	B3 Expand: $6(5p+3q)$	B4 Expand: $5(4p-2q+3)$
C1 Expand: $8(rs-7)$	C2 Expand: $7(2rs+3)$	C3 Expand: $5(5rs-2t)$	C4 Expand: $4(3rs+st-t)$
D1 Expand and simplify: $3w+4(w+5)$	D2 Expand and simplify: $8w+2(3w-7)$	D3 Expand and simplify: $5w+(w+7)$	D4 Expand and simplify: $11+7(w+3)$
E1 Expand and simplify: $4(x+1)+7$	E2 Expand and simplify: $6(x+3)+2x$	E3 Expand and simplify: $3(5x+7)-1$	E4 Expand and simplify: $2(1+4x)-x$



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A1 Expand: $7(m+3) = 7m + 21$	A2 Expand: $4(m-4) = 4m - 16$	A3 Expand: $8(m+n) = 8m + 8n$	A4 Expand: $9(m+n-3) = 9m + 9n - 27$
B1 Expand: $2(3p+7) = 6p + 14$	B2 Expand: $3(p+2q) = 3p + 6q$	B3 Expand: $6(5p+3q) = 30p + 18q$	B4 Expand: $5(4p-2q+3)$ $= 20p - 10q + 15$
C1 Expand: $8(rs-7) = 8rs - 56$	C2 Expand: $7(2rs+3) = 14rs + 21$	C3 Expand: $5(5rs-2t) = 25rs - 10t$	C4 Expand: $4(3rs+st-t)$ $= 12rs + 4st - 4t$
D1 Expand and simplify: $3w + 4(w+5) = 3w + 4w + 20$ $= 7w + 20$	D2 Expand and simplify: $8w + 2(3w-7) = 8w + 6w - 14$ $= 14w - 14$	D3 Expand and simplify: $5w + (w+7) = 5w + w + 7$ $= 6w + 7$	D4 Expand and simplify: $11 + 7(w+3) = 11 + 7w + 21$ $= 7w + 32$
E1 Expand and simplify: $4(x+1) + 7 = 4x + 4 + 7$ $= 4x + 11$	E2 Expand and simplify: $6(x+3) + 2x = 6x + 18 + 2x$ $= 8x + 18$	E3 Expand and simplify: $3(5x+7) - 1 = 15x + 21 - 1$ $= 15x + 20$	E4 Expand and simplify: $2(1+4x) - x = 2 + 8x - x$ $= 7x + 2$