

## Year 9 Higher – Expanding Brackets

1. Expand the single brackets

a)  $5(y + 3) =$

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b)  $3(w - 6) =$

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c)  $a(b + 7) =$

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d)  $-5(2q - 3) =$

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e)  $4(5t + 6) =$

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f)  $2d(5e + 2f) =$

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g)  $2y(3y - 2) =$

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h)  $3g^2(g^2 + 5g) =$

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i)  $8rt(3s - 5st + 7t^2) =$

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j)  $5abc(abc^2 + 9ab^4 - 3abc + 23b^5c^{-3}) =$

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1. Expand and simplify

a)  $5(y - 7) + 2y + 3 =$

b)  $7 - 6(2g + 7) =$

Expand each bracket first and then simplify these expressions:

(a)  $6(4x - 3) + 3(4x - 1)$

(b)  $5(5z + 12) + 3(5z - 2)$

(c)  $y(5y + 6) - y(y - 5)$

(d)  $r(5r + p) + 2r(r + p)$

(e)  $2s(2t + p) + 2t(s + p)$

(f)  $4a(3b + p) - 2a(a - p)$

Expand and simplify

a)  $(h + 5)(h + 8)$

b)  $(g - 7)(g - 3)$

c)  $(b - 4)(b + 11)$

d)  $(2y + 3)(2y - 5)$

e)  $(5j - 4)(2j + 11)$

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

g)  $(4p - 3)^2$

h)  $5(2a + b)(a - 6b)$

i)  $(y + 1)(y + 3)(y - 2)$

j)  $(p + 2)(2p - 3)(p - 1)$

k)  $(b + 2)^2(b - 1)$

l)  $(2b - 5)^3$