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National 5 Maths Expanding Brackets

SQA past paper and specimen paper questions and answers by topic

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Multiply out the brackets and collect like terms:

$(2x-5)(3x+1)$.

2

Answer:

$6x^2 - 13x - 5$

Multiply out the brackets and collect like terms

$$(x-4)\left(x^2+x-2\right).$$ **3**

Answer:

$x^3 - 3x^2 - 6x + 8$

Expand and simplify $(2x+3)(x^2 - 4x + 1)$. **3**

Answer:

$2x^3 - 5x^2 - 10x + 3$

Expand and simplify $(3x+1)(x-1)+2(x^2-5)$. **3**

Answer:

$5x^2 - 2x - 11$

Expand and simplify $(x+5)(2x^2 - 7x - 3)$. **3**

Answer:

$2x^3 + 3x^2 - 38x - 15$

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Expand and simplify $(6x-5)(x+3)+2x(4-x)$.   **3**

Answer:

$4x^2 + 21x - 15$

Expand and simplify $(3x-2)(2x^2+5x-1)$.

3

Answer:

$6x^3+11x^2-13x+2$

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Expand and simplify $(x+7)^2 + 6(x^2 - 10)$. **3**

Answer:

$7x^2 + 14x - 11$