National 5: Expanding Brackets

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Answers

Q1 **a)** $7x + 23$ **b)** $7x + 21$ **c)** $14x + 17$

d) $12x + 22$ **e)** $14a + 26$ **f)** $17n + 19$

Q2 **a)** $7x - 11$ **b)** $-4t - 32$ **c)** $-13x + 33$

d) $-10y - 14$ **e)** 13 **f)** $14c - 20$

Q3 **a)** $3x^2 + 2x$ **b)** $2x^2 + 10x$ **c)** $15x^2 + 5x$

d) $6x^2 + 36x$ **e)** $72x^2 + 40x$ **f)** $42y^2 + 54y$

Q4 **a)** $2x^2 - 5x$ **b)** $-3x^2 - 6x$ **c)** $-6x^2 + 30x$

d) $-4x^2 + 48x$ **e)** $24y^2 - 42y$ **f)** $20x^2 + 28x$

Q5 **a)** $x^2 + 7x + 10$ **b)** $3x^2 + 7x + 4$ **c)** $2x^2 + 19x + 24$

d) $6x^2 + 11x + 3$ **e)** $20e^2 + 13e + 2$ **f)** $14x^2 + 67x + 18$

Q6 **a)** $x^2 + x - 12$ **b)** $2x^2 + 5x - 25$ **c)** $3x^2 - 19x + 6$

d) $-5x^2 + 13x - 6$ **e)** $-12x^2 + 11x - 2$ **f)** $6r^2 - 25r + 24$

Q7 **a)** $x^3 + 7x^2 + 11x + 5$ **b)** $2x^3 + 7x^2 + 8x + 3$ **c)** $3x^3 + 16x^2 + 8x + 1$

d) $4x^3 + 8x^2 + 11x + 12$ **e)** $12p^3 + 19p^2 + 33p + 35$ **f)** $4z^3 + 28z^2 + 51z + 27$

Q8 **a)** $x^3 - x^2 - 2x + 8$ **b)** $5x^3 - 19x^2 - 14x - 2$ **c)** $2x^3 - x^2 - 4x - 15$

d) $6k^3 + k^2 - 16k + 5$ **e)** $-4x^3 + 4x^2 - 13x + 6$ **f)** $-8i^3 + 18i^2 - 15i + 14$

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