Expand Triple Brackets

Core Worksheet

Worked Examples & Guided Practice

I Do (Teacher Model) Expand and simplify $(x+1)(x+2)(x+3)$.

We Do (Guided Practice) Expand and simplify $(x-2)(x+3)(x+4)$.

You Do (Independent Practice) Expand and simplify $(2x-1)(x+2)(x-3)$.

Challenge (Extension) Expand and simplify $(x-3)^3$.

Practice Perfect Questions

Q1. Expand and simplify $(x+2)(x+3)(x+4)$.

Q2. Expand and simplify $(x-1)(x+2)(x+5)$.

Q3. Expand and simplify $(x-3)(x-2)(x+1)$.

Q4. Expand and simplify $(2x+1)(x-1)(x+3)$.

Q5. Expand and simplify $(x+4)^3$.

Q6. Expand and simplify $(3x-2)(x+1)^2$.

Answers & Worked Solutions

Model Solutions

- **I Do:** $x^3 + 6x^2 + 11x + 6$
- **We Do:** $x^3 + 5x^2 - 2x - 24$
- **You Do:** $2x^3 - 3x^2 - 11x + 6$
- **Challenge:** $x^3 - 9x^2 + 27x - 27$

Practice Perfect Questions Solutions

Q1. $x^3 + 9x^2 + 26x + 24$

Q2. $x^3 + 6x^2 + 3x - 10$

Q3. $x^3 - 4x^2 + x + 6$

Q4. $2x^3 + 5x^2 - 4x - 3$

Q5. $x^3 + 12x^2 + 48x + 64$

Q6. $3x^3 + 4x^2 - x - 2$