Blurt it

Step 1

Name _____ **Date** _____

1. Cover your notes and put your phone face down.
2. Set a timer for 5 minutes.
3. Write down everything you remember about expanding, factorising, and inequalities: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: expand · factorise · inequality

When the timer ends, turn over and check what you remembered.

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Check it, fix it, space it

Steps 2, 3 and 4

Check it

Tick each idea you wrote down, even in your own words.

- [ ] Expand a bracket: multiply every term inside by the term outside
- [ ] A negative outside a bracket changes the sign of every term inside
- [ ] Expand two or more brackets, then collect like terms to simplify
- [ ] Double brackets: multiply each term in one bracket by each term in the other
- [ ] Factorise by taking out the highest common factor, numbers and letters
- [ ] Factorise fully: check that nothing common is left inside the bracket
- [ ] Difference of two squares: $x^2 - a^2 = (x + a)(x - a)$
- [ ] ≤ means less than or equal to; ≥ means greater than or equal to
- [ ] Solve a linear inequality like an equation, keeping the inequality sign
- [ ] Multiply or divide both sides by a negative number: reverse the inequality sign
- [ ] Number lines: an open circle for < or >, a filled circle for ≤ or ≥
- [ ] Write the solution set using inequality notation

Higher only

- [ ] Expand three brackets: expand two first, then multiply by the third
- [ ] Factorise quadratics where the number in front of x^2 is greater than 1
- [ ] Difference of two squares with a coefficient: $25x^2 - 1 = (5x + 1)(5x - 1)$
- [ ] Factorise by grouping the terms in pairs
- [ ] Solve a quadratic inequality: find the roots, then sketch the graph to choose the region
- [ ] Show an inequality in x and y as a region on a graph: draw the boundary line, then shade
- [ ] For an “and” condition, the region must satisfy every inequality at once

Key words to use: expand · factorise · bracket · term · common factor · binomial · inequality solution set · difference of two squares · region

I remembered _____ out of 12. **Higher only: _____ out of 7.**

Fix it

Pick 3 ideas you missed. Look them up, then write each one correctly.

1

2

3

Space it

Blurt again on a fresh sheet. Gaps help you remember for longer.

Tomorrow

Date _____
Score _____ / 12
Higher only _____ / 7

In 3 days

Date _____
Score _____ / 12
Higher only _____ / 7

In a week

Date _____
Score _____ / 12
Higher only _____ / 7

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