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 angle properties and similarity: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: alternate angles · polygon · similar

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.

- [ ] Angles on a straight line add to 180°; angles around a point add to 360°
- [ ] Vertically opposite angles are equal
- [ ] Angles in a triangle add to 180°; use this with isosceles and equilateral triangles
- [ ] Angles in a quadrilateral add to 360°
- [ ] Parallel lines: corresponding angles are equal and alternate angles are equal
- [ ] Co-interior angles add up to 180°: they are not equal
- [ ] Sum of the interior angles of a polygon = (n − 2) × 180°
- [ ] Exterior angles of any polygon add to 360°; in a regular polygon each is 360° ÷ n
- [ ] Interior angle + exterior angle = 180°, so one gives you the other
- [ ] Congruent means identical in shape and size: prove it with SSS, SAS, ASA or RHS
- [ ] Similar means same shape, not same size: angles equal, sides in the same ratio
- [ ] Find a missing length with the scale factor, matching up corresponding sides
- [ ] Prove triangles are similar using equal angles or sides in the same ratio

Higher only

- [ ] Find lengths using similar triangles in overlapping or more complex figures
- [ ] Area scale factor = length scale factor²
- [ ] Volume scale factor = length scale factor³
- [ ] Do not use the length scale factor for area or volume: square it or cube it first
- [ ] Solve multi-step problems that combine similarity with area or volume
- [ ] Exterior angle of a triangle = sum of the two opposite interior angles: use it in proofs

Key words to use: vertically opposite · transversal · corresponding angles · alternate angles
co-interior angles · interior angle · exterior angle · polygon · regular polygon · congruent · similar

I remembered _____ out of 13. **Higher only: _____ out of 6.**

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	In 3 days	In a week
Date _____	Date _____	Date _____
Score _____ / 13	Score _____ / 13	Score _____ / 13
Higher only _____ / 6	Higher only _____ / 6	Higher only _____ / 6

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