GCSE MATHS · RATIO AND PROPORTION

# 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 ratio and proportion: methods, key words, examples, and mistakes to avoid. Diagrams count too.

**Stuck? Start with one of these:** simplest form · unitary method · inverse proportion

**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.

- [ ] Simplify a ratio by dividing every part by the highest common factor
- [ ] Share an amount in a ratio: add the parts, find one part, then multiply
- [ ] Three-part ratios work the same way: find the total number of parts first
- [ ] Avoid dividing by one of the ratio numbers: divide by the total number of parts
- [ ] Scale a ratio up or down to find a missing quantity
- [ ] Unitary method: find the value of one, then scale up
- [ ] Best buy: compare the price per unit, after putting both in the same units
- [ ] Turn a ratio into a fraction of the whole: each part over the total number of parts
- [ ] A ratio says “for every”, a fraction says “out of the whole”: do not mix them up
- [ ] Direct proportion: both amounts change by the same multiplier, like scaling a recipe
- [ ] Inverse proportion: as one amount goes up, the other goes down, like more workers, less time
- [ ] Check whether a context is direct or inverse before you calculate

### Higher only

- [ ] Use a ratio that contains an unknown to form an equation, then solve it
- [ ] Inverse proportion: write $y = k \div x$, find k from a known pair, then use it
- [ ] Find the shares when you are given the difference between two of them
- [ ] Solve multi-step problems that mix ratio with unit or currency conversion

Key words to use: ratio · proportion · simplest form · unitary method · scale factor · direct proportion · inverse proportion · unit price

**I remembered _____ out of 12.** **Higher only: _____ out of 4.**

## 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 _____ / 4

**In 3 days**

Date _____
Score _____ / 12
Higher only _____ / 4

**In a week**

Date _____
Score _____ / 12
Higher only _____ / 4



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