GCSE MATHS · PROBABILITY

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 probability: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: sample space · tree diagram · mutually exclusive

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.

- [ ] Probability = favourable outcomes ÷ total outcomes, when outcomes are equally likely
- [ ] All the probabilities for an event add up to 1, so P(not A) = 1 − P(A)
- [ ] A sample space diagram lists every outcome of two combined events
- [ ] Two-way tables: use the correct row or column total for the probability you want
- [ ] Relative frequency = number of times it happened ÷ number of trials
- [ ] Relative frequency is an estimate: more trials give a better estimate
- [ ] Mutually exclusive events cannot happen together; independent events do not affect each other
- [ ] AND means multiply, OR means add: do not swap them
- [ ] Tree diagrams: multiply along the branches, then add the paths you need
- [ ] The branches from any one point add up to 1
- [ ] Without replacement: the total goes down on the second set of branches, so the fractions change

Higher only

- [ ] Conditional probability: work out a probability given that something has already happened
- [ ] Use algebra in probability, such as an unknown number of counters in a bag, then solve

Key words to use: probability · outcome · event · sample space · mutually exclusive · independent · tree diagram · conditional · relative frequency · without replacement

I remembered _____ out of 11. **Higher only: _____ out of 2.**

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 _____ / 11
Higher only _____ / 2

In 3 days

Date _____
Score _____ / 11
Higher only _____ / 2

In a week

Date _____
Score _____ / 11
Higher only _____ / 2

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