

What will 30 spins look like?

An experiment in independent 50/50 choices.

Name: _____

Date: _____

01 Before you spin

I predict ____ Yes results and ____ No results in 30 spins.

02 Record every result

Use the online wheel in Yes / No mode. Write Y or N in each box. Do not restart when you see a streak.

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

03 Count and compare

Yes: ____ No: ____ Total: 30

04 A little thinking

How close was your prediction to the actual result?

Did any answer appear several times in a row?

Would another set of 30 spins have to look the same? Why?

A few notes for the guide

For teachers, facilitators, and curious grown-ups.

01 The expected result

With 30 independent spins and a 50% chance of Yes, the expected number of Yes results is $30 \times 0.5 = 15$. This is an average over repeated experiments, not a promised result for one worksheet.

02 Streaks are not a malfunction

Each new spin still has a 50% chance of Yes, regardless of earlier results. Five Yes results in five specified spins have a probability of $(1/2)^5 = 1/32$.

03 Keep the experiment honest

Use the online Yes / No wheel, record all 30 spins, and avoid switching modes or restarting after an unexpected run. The hand-spun paper template is for a different activity.

04 Extend the conversation

Compare results across groups. Pool their totals and calculate the share of Yes results. A larger sample does not guarantee a result closer to 50%, but large deviations become less likely.

Try the online wheel

<https://spinlumo.com/en/>

