Monkey Republic: Will the Champion Win in Another World?

Name: _____ Date: _____

A champion can win once and lose on another seed. Fix your question, conditions and metric BEFORE running. Do not erase runs you dislike. Start with these made-up practice scores.

One example, already done

Scores 8, 12, 10 have mean (8+12+10)/3 = 10. This is an average of runs. In the lab, mean bananas within one run is all cumulative bananas divided by nine citizens.

Practice scores, not the live model results

Seed	Strategy A	Strategy B
1	30	24
2	10	24
3	20	24
MEAN		

Your turn

1. Calculate both means. Which strategy has the highest single run? Which has the higher mean? Can we delete seed 2 because A lost?

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2. Plan one comparison. Change ONLY _____. Keep world/payoffs, population, rounds, other dials and seeds fixed. Metric: _____. Prediction: _____.

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Actual model: Win-Win, nine citizens, 100 rounds, default dials

Seed	Noise 0: mean bananas	Noise .15: mean bananas
1	148	184
2	210	154
3	197.3333	134
4	181.5556	134
5	192.6667	134.2222
MEAN		

These are cumulative bananas per citizen, not per round. Compare seed 1 with the five-seed means. Does the direction stay the same? Circle the evidence.

Change one thing

Run the same two conditions on the five declared seeds; export every run. Record student score and full-run share rate separately. If a world preset changes payoffs AND noise, how will you isolate just one effect?

My puzzle - make it in class

Give a partner an experiment card: one question, one changed condition, fixed settings, seeds and a metric. Keep all results and one exception; reserve NEW seeds for a final test after tuning.

At home (with a parent)

Show a parent seed one before the full five-seed table. Discuss why experiments and metrics should be chosen in advance.

My parent tried my puzzle: Yes / Not yet Parent initials: _____