

Worksheet 5: Advanced Probability - Rolling for Strategy (Grades 10-12)

Name: _____

Date: _____

Objective: Analyze strategic decision-making using probability.

Instructions: In a game, rolling a 5 or 6 on a D6 lets you move forward.

You can roll up to 3 times per turn but must stop if you roll a 1.

Simulate 50 turns using FreeOnlineDiceRoller.com.

Record how far you move each turn.

Reflection:

- What was your average movement?
- Would adjusting the rules change your strategy?

Use this tool: <https://FreeOnlineDiceRoller.com>