

Uncle Earl Day 2

- 1) Which of the options in Uncle Earl is linear? Explain how you know.
- 2) Describe the growth of the option that is not linear. How does it grow differently from the linear option?
- 3) Write an equation for each option where x is the # of days and y is the amount of money after that many days.

Choose ONE of these to explore.

1. If you started Option A with a penny instead, how long would it take for it to be the better choice?
2. In Option B, what if Uncle Earl had given you \$1,000,000 to start with and then \$5,000,000 more every day? Without doing any math yet, predict when you think Option A would pass Option B. Then check your guess.
3. Create a scenario similar to Option A and Option B in which Option A passes Option B on day 35.
4. For Option A, instead of doubling your money every day, what if Uncle Earl had only increased your money by 50% every day? In this scenario, how long would it take to pass Option B (the original version of Option B)?