

Name _____

THE PENNY LAB

7-42

a. Is it possible that a team conducting this experiment might never remove their last penny? Explain.

b. Would the results of this experiment have been significantly different if you had removed the "heads" pennies each time?!

c. If you had started with 200 pennies, how would this have affected the results?

7-43 a. Where does the graph cross the y-axis? Does the graph have any asymptotes? Should the graph be continuous or discrete?

b. Is this situation increasing or decreasing? What does this mean about the multiplier? Using what you know about the probability of flipping a fair coin what would you expect or estimate the multiplier to be?!

c. Write an equation for an exponential function that models the data. Make sure you also write a "let" statement for your variables.

f. In the context of this situation, what should the domain of the model that you wrote in part (c) be? With the appropriate domain, what would a graph of your model look like?!

g. What family of functions that you saw in previous chapters has graphs like the one you made in part (f)? What are the first few values of this function? What is the equation?!

