

Name:

Date:

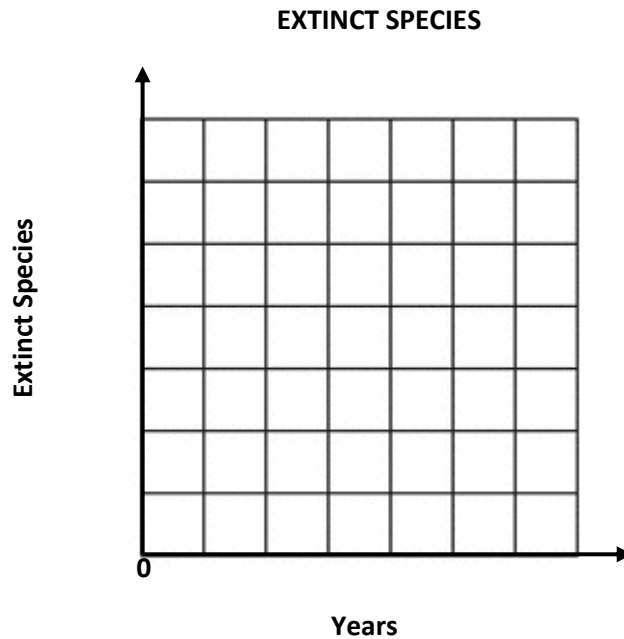
Period:

Complete each of the following problems by graphing the given data on the Quadrant I Graphs provided. Make sure to think about reasonable scales to use to graph these equations.

1. The equation $y = 25,000x$ describes the average number of species y that become extinct in x years. Complete the table and graph the equation.

Complete the table

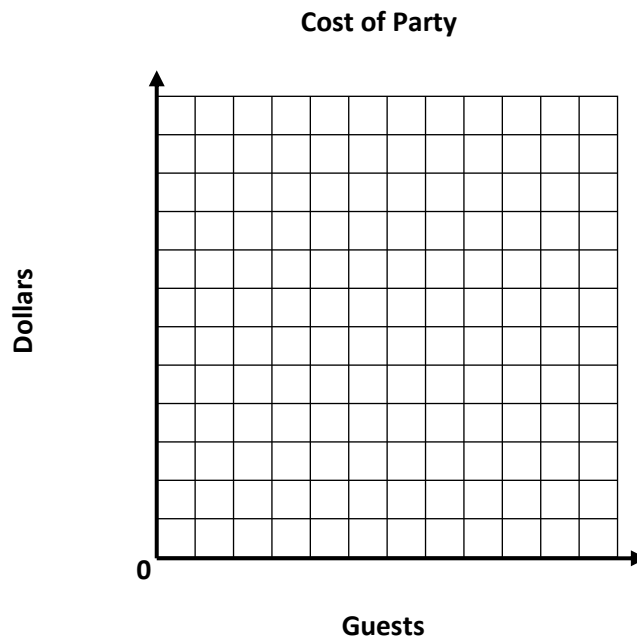
x	y
Years	Extinct Species
0	0
2	
4	
6	



2. Mark wants to have a laser tag party. The cost of the party, y , can be modeled by the equation $y = 5x + 20$, where x is the number of guests. Complete the table and graph the equation.

Complete the table

x	y
# of Guests	Cost (\$)
3	35
5	
7	
8	



3. The table shows the cost to rent different items.

Item	Deposit (\$)	Cost per Hour (\$)
Mountain bike	15	4.25
Scooter	25	2.50

a. Write a function rule to represent each situation.

Mountain Bike

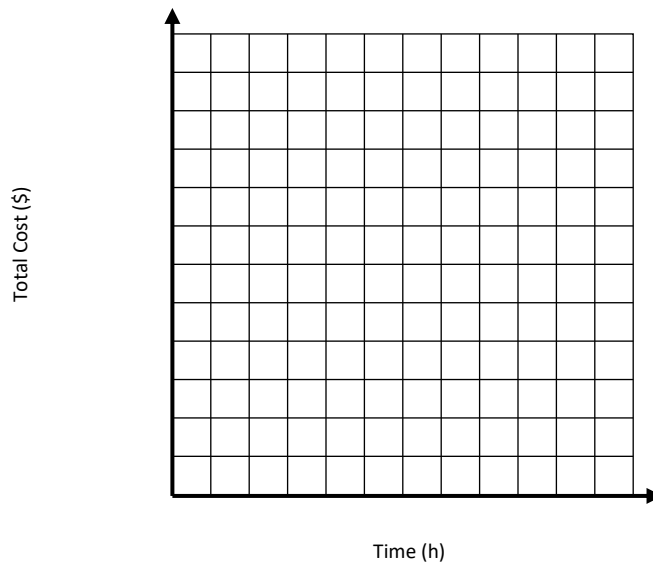
Scooter

b. Complete each function table to find the total savings for 2, 3, 4, or 5 hours.

Mountain Bike		
x		y
2		
3		
4		
5		

Scooter		
x		y
2		
3		
4		
5		

c. Graph the functions on the same coordinate plane. Are the functions continuous or discrete? Explain.



d. Will the mountain bike or scooter cost more to rent for 8 hours?

Mountain Bike

Scooter

e. How much is the cost to rent the mountain bike for 8 hours? _____