

**Mult. Representations – Baseball Bat**

**Name:** \_\_\_\_\_

1. Craig just made the baseball team and has to buy a new bat. His mom said that she will buy it, but he has to make monthly payments of \$25. The bat Craig really wants will cost him \$360 after tax.

Independent Variable: \_\_\_\_\_

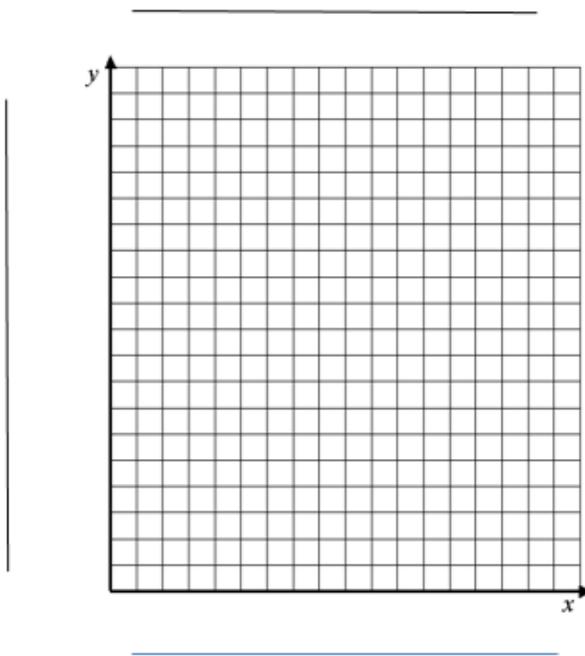
Dependent Variable: \_\_\_\_\_

- a.) Fill in the data table below and then make a graph to show the amount owed after each month.

# of months	0	1	2	3	4	5
Amount owed						

- b.) What is the rate of change? Write a sentence in terms of money and number of months.

- c.) Draw a graph of this relationship. Be sure to label your axes.



- d.) Write a " $f(x) =$ " rule for this relationship.

- f.) Use the " $f(x) =$ " rule to find how much Craig owes at 5 months.

- g.) How much does Craig owe at 11 months?

- h.) How many months until Craig owes \$200? Set up an equation and solve.

- i.) How many months until Craig owes less than \$45? Set up an inequality and solve.