\*Learning Target:

\*Critical Content:

\*A relationship is proportional if its equation is of the form \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_ and the graph passes through \_\_\_\_\_\_.

\*These patterns can be described using a \_\_\_\_\_\_\_\_\_, a \_\_\_\_\_\_\_\_, and an \_\_\_\_\_\_\_\_\_\_\_\_.

Ex: Marcos is a personal trainer. In addition to his salary, he receives a bonus for each client he sees.
a) Graph the data. Is it proportional?



Is it linear? \_\_\_\_\_\_\_\_\_\_

Does it pass through the origin? \_\_\_\_\_\_\_\_\_

Is it proportional? \_\_\_\_\_\_\_\_\_\_\_\_

b) Write an equation. c) Predict the amount of Marcos’s bonus if he sees 8 clients.

m = \_\_\_\_\_\_

b = \_\_\_\_\_\_

y = \_\_\_\_\_\_\_ x + \_\_\_\_\_\_

\*Some linear equations can represent a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This happens when the

graph is \_\_\_\_\_\_\_\_\_\_\_\_\_, but does not go through the \_\_\_\_\_\_\_\_\_\_\_\_\_.



Ex: a) Write an equation in function notation for the graph.
\*THIS IS JUST Y=MX+B! LOOK AT THE GRAPH.

m = \_\_\_\_\_\_

b = \_\_\_\_\_\_

y = \_\_\_\_\_\_\_ x + \_\_\_\_\_\_

b) Is this function proportional? Explain.