Name: Date: **Block:**

Function Notation and Evaluating Functions

{(1,3)(2,5)(3,7)(4,9)}

Define the term domain, then write your example from the coordinates above.

Define the term range, then write your example from the coordinates above.

Identify the domain and range of the function below.
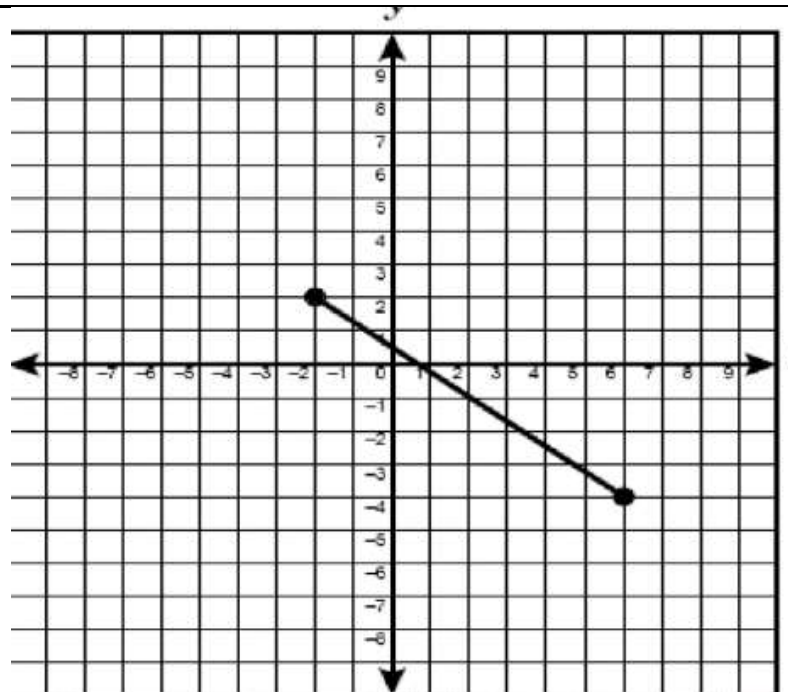**{(3, 6), (2, 8), (5, 3)}**
List all the domain values:

List all the range values:

What is the value of the range when f(6)?

What is the value of the range when f(2)?

What is the value of the domain when f(x)=-1?

What is the value of the domain when f(x)=2?

Function Notation and Evaluating Functions

Given the function, f(x) = –4x + 3 and the domain: {–1, 0, 1, 2, 3}.
What are the members of the range?

A bookstore has a steady decline in sales. As a result, the store is laying off employees at a steady rate. The function of the decline in employees is $g(x) = -2x + 56$, where x is in months. Evaluate the function over the domain $\{3, 6, 18, 24\}$.

Carlos is taking a road trip. So far he has traveled 120 miles at a constant speed of 60 mph. His distance can be modeled by the function $d(x) = 60x + 120$, where x is in hours. How many miles will he have traveled after 3, 5, and 8 more hours? Interpret the results in terms of the context of the function.