Analyzing Relations Worksheet #2

Name: _____

Date: _____ Hour: _____

Directions: Determine the rate of change for each function and answer the question that follows.

Linear Relationship | **Rate of Change**

a. $y = 2x - 15$ in meters per second — Rate of Change: _____

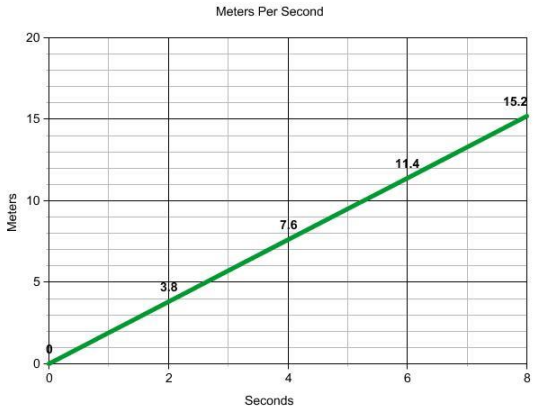
b. 21 meters in 10 seconds — Rate of Change: _____

c.

Time (seconds)	0	2	4	6
Distance (meters)	9	13.4	17.8	22.2

Rate of Change: _____

d.



Rate of Change: _____

WHICH LINEAR RELATIONSHIP HAS THE GREATEST RATE OF CHANGE? _____

Directions: Determine the initial value for each function and answer the question that follows.

Linear Relationship | **Initial Value**

a. $y = 8x$ in dollars per salmon steak — Initial Value: _____

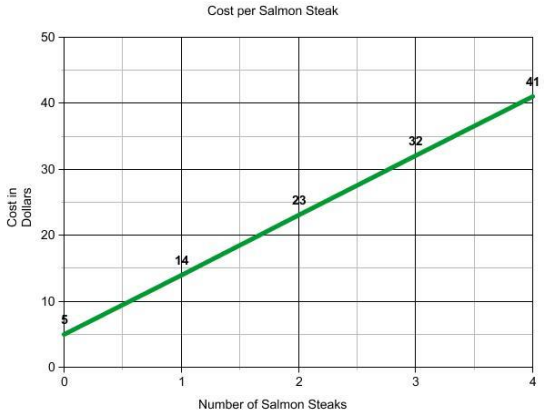
b. $16.50 for 2 salmon steaks — Initial Value: _____

c.

# of Salmon Steaks	0	3	6	9
Cost ($)	9	32.25	55.50	78.75

Initial Value: _____

d.



Initial Value: _____

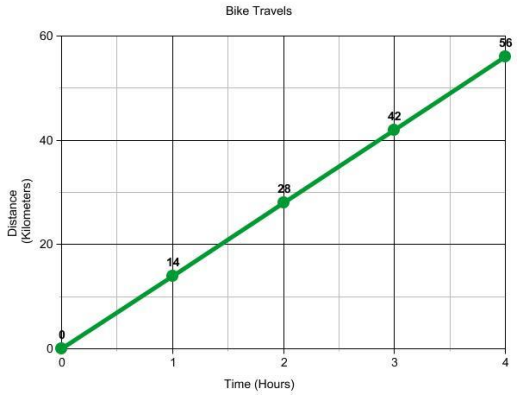
WHICH LINEAR RELATIONSHIP HAS THE GREATEST INITIAL VALUE? _____

What is unit rate?

Directions: Determine the unit rate for each and then rank the following proportional relationships in order from 1 (highest rate of change) to 4 (lowest rate of change):

	Proportional Relationship	Unit Rate	Order
a.	$y = 13x$ for kilometers per hour	Unit Rate: _____	_____
b.	Teddy rides his bike 50 kilometers in 4 hours	Unit Rate: _____	_____
c.	(see table below)	Unit Rate: _____	_____
d.	(see graph below)	Unit Rate: _____	_____

Time (hrs)	0	3	6	9
Distance (km)	0	36	72	108



Directions: Determine the unit rate for each and then rank the following proportional relationships in order from 1 (highest rate of change) to 4 (lowest rate of change):

	Proportional Relationship	Unit Rate	Order
a.	$y = 2.99x$ for loaves of bread in dollars per loaf	Unit Rate: _____	_____
b.	Edith charges $8.67 for 3 loaves of bread	Unit Rate: _____	_____
c.	(see table below)	Unit Rate: _____	_____
d.	(see graph below)	Unit Rate: _____	_____

# of Loaves	0	2	4	6
Cost of Bread ($)	0	5.90	11.80	17.70