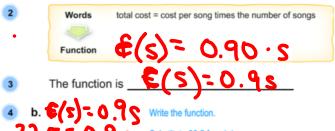


- Mariah spent \$22.50 downloading songs to her digital music player from an online music store for \$0.90 each.
  - a. Identify the independent and dependent variables. Then write a function to represent the total cost of any number of songs.
  - Use the function to determine the number of songs that Mariah downloaded.
- independent: how many songs dependent: cost





Task #1: Check completed notes/HW and put in notebook if it is not already.

9-1 pg387, April 13

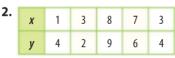
#### **Guided Practice**

Determine whether each relation is a function. Explain. (Examples 1 and 2)

**1.** {(8, 2), (4, 3), (6, 5), (1, 5)}

## Yes--no x's repeat.

No-2 of the points are "stacked," so this graph fails the vertical line test.



No- one of the x's (the 3) repeats.

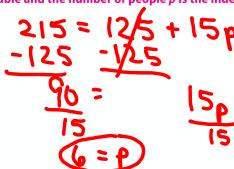
Yes-it passes the vertical line test.

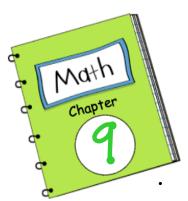
If f(x) = 6x - 4, find each function value. (Example 3)

8. 
$$f(-9)$$
 6\*(-9)-4=-58

- 9. The Milligan family spent \$215 to have their family portrait taken. The portrait package they would like to purchase costs \$125. In addition, the photographer charges a \$15 sitting fee per person in the portrait. (Example 4)
  - a. Identify the independent and dependent variables. Then write a function to represent the total cost of any number of people in the portrait.

**b.** Use the equation to find the number of people in the portrait. 6 people 9a. Since the total cost depends on the number of people, the total cost c is the dependent variable and the number of people p is the independent variable; c(p) = 125 + 15p.





# TTTLE:

# Functions

Q.		
Date	Lesson	Topic/Assignment
4/12	I	Functions Video Notes
4/13	1	HOMEWORK: Pg 387 WS
4/13	I	GLASSWORK: Skills Practice WS
4/14	2	Rep of Functions Video Notes
4/15	2	HOMEWORK: Pg 393 WS
4/15	2	HOMEWORK: Skills Practice WS
	1	1



0	Name			
CLASSWORK	Unit	Lesson	Due Date	

### **Lesson 1 Skills Practice**

#### **Functions**

Determine whether each relation is a function. Explain.

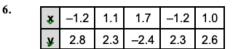
1. 
$$\{(3, -8), (3, 2), (6, -1), (2, 2)\}$$

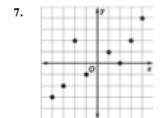
**2.**  $\{(0, 1), (-4, -3), (-3, 6), (3, 6)\}$ 

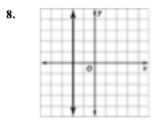
3. 
$$\{(-6,3), (2,-2), (0,8), (1,1)\}$$

**4.** {(1, 8), (-6, 21), (-11, 21), (-3, 11), (0, 21)}

5.	¥	1	-3	8	-8	20
	¥	2	6	6	5	11







If f(x) = 4x - 2, find each function value.

**9.** 
$$\mathcal{L}(3)$$

If g(x) = 3x + 6, find each function value.

13. 
$$g(2)$$

14. 
$$g_{\bullet}(7)$$

15. 
$$g(-4)$$

16. 
$$g(0)$$