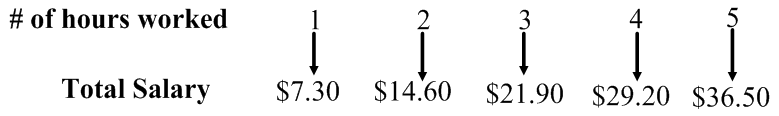
Math 1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2-3 Introduction to Functions** Date\_\_\_\_\_\_\_\_

* *I can interpret function notation and explain how the output of a function is matched to its input.*
* *I can interpret the meaning of an ordered pair*

Frank is an employee at Burger Castle and earns $7.30 per hour, working the front counter. His salary is calculated by using the rule , where denotes the number of hours he works and denotes his total salary.



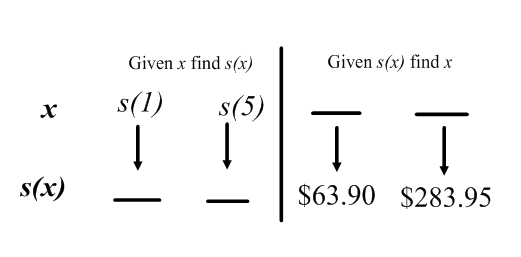
We will name this function by using function notation:

\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_= $29.20, \_\_\_\_\_\_\_\_= $36.50

Explain what f (1) = 7.30 means in this problem situation.

\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_= $109.50, \_\_\_\_\_\_\_\_= $153.30

Sally also works at Burger Castle, but she earns $8.15 per hour and a $15.00 bonus for working the late shift. Her salary is calculated by using the rule , where denotes the number of hours she works and denotes her total salary.

We will name this function by using function notation:

**Solve problems 1-3 and write your answer using function notation.**

1. If Sally worked for 38 hours, then what would be her total salary?

2. If Sally made $235.05, then how many hours did she work?

3. Sally earned $178.00 and $357.30 during two weeks of work. How many hours did Sally work for those two weeks?

4. Explain why Sally’s total salary is a function of hours worked.

**OVER🡪**

**Function Practice:**

Write as an ordered pair (*x*, f(*x*))

\_\_\_\_\_\_ ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

\_\_\_\_\_\_ ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

\_\_\_\_\_ ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

\_\_\_\_\_\_ ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

\_\_\_\_\_\_ ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

\_\_\_\_\_\_ ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

Find the value of *x* when *f*(*x*) = 15. ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

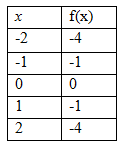
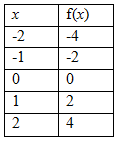
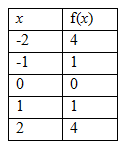
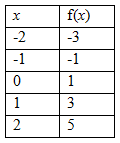
Find the value of *x* when *f*(*x*) = 0. ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

Find the value of *x* when *f*(*x*) = -12. ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

Find the value of *x* when *f*(*x*) = 10.5. ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

Find the value of *x* when *f*(*x*) = -15. ( \_\_\_\_\_\_\_ , \_\_\_\_\_\_\_ )

Write a function rule, in function notation, that could result in the following ordered pairs:



\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_