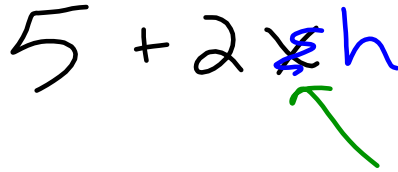


Warm Up: Algebra 2

9/26 Day 1

At Sapphire Island, visitors can rent inner tubes to use in several of the park's rides and pools. Maria works at the rental booth and is preparing materials so that visitors and employees will understand the pricing of the tubes. Renting a tube costs a flat fee of \$5 plus an additional \$2 per hour.

$$5 + 2h$$


Also on pg. 7

Feb 27-7:39 AM

W.A.L.T.:

Day 1

Create equations that represent the relationship between two variables.

W.A.S.I.:

We can use the provided information to write and graph an equation.

Mar 7-9:45 AM

In Class Work: pg. 7 #1, 2

Day 1

1. Maria started making a table that relates the number of hours a tube is rented to the cost of renting the tube. Use the information above to help you complete the table.

Tube Rentals

Hours Rented	Cost (\$)
1	7
2	9
3	11
4	13
5	15

Mar 7-1:33 PM

In Class Work: pg. 7 #1, 2

Day 1

2. Explain how a customer could use the pattern in the table to determine the cost of renting a tube for 6 hours.

Mar 7-1:33 PM

Notes!!! Independent Vs. Dependent

MATH TIP

Recall that in a relationship between two variables, the value of the *independent variable* determines the value of the *dependent variable*.

Dec 31-10:01 PM

In Class Work: pg. 7 #3 - 7

Day 1

Next, Maria wants to write an equation in two variables, x and y , that employees can use to calculate the cost of renting a tube for any number of hours.

- 3. Reason abstractly.** What does the *independent variable* x represent in this situation? Explain.
- 4.** What does the dependent variable y represent in this situation? Explain.

Mar 7-1:33 PM

In Class Work: pg. 7 #3 - 7

Day 1

5. Write an equation that models the situation.

Cost = flat fee + \$2 per hour
renting

$$y = 5 + 2x$$
$$y = 2x + 5$$

Mar 7-1:33 PM

In Class Work: pg. 7 #3 - 7

Day 1

6. How can you tell whether the equation you wrote in Item 5 correctly models the situation?

$$y = 2x + 5$$
$$y = 2(1) + 5 = 7$$
$$y = 2(2) + 5 = 9$$

x	y
1	7
2	9
3	
4	
5	

Mar 7-1:33 PM

In Class Work: pg. 7 #3 - 7

Day 1

7. **Construct viable arguments.** Explain how an employee could use the equation to determine how much to charge a customer.

$$y = 2x + 5 \text{ F.F.}$$

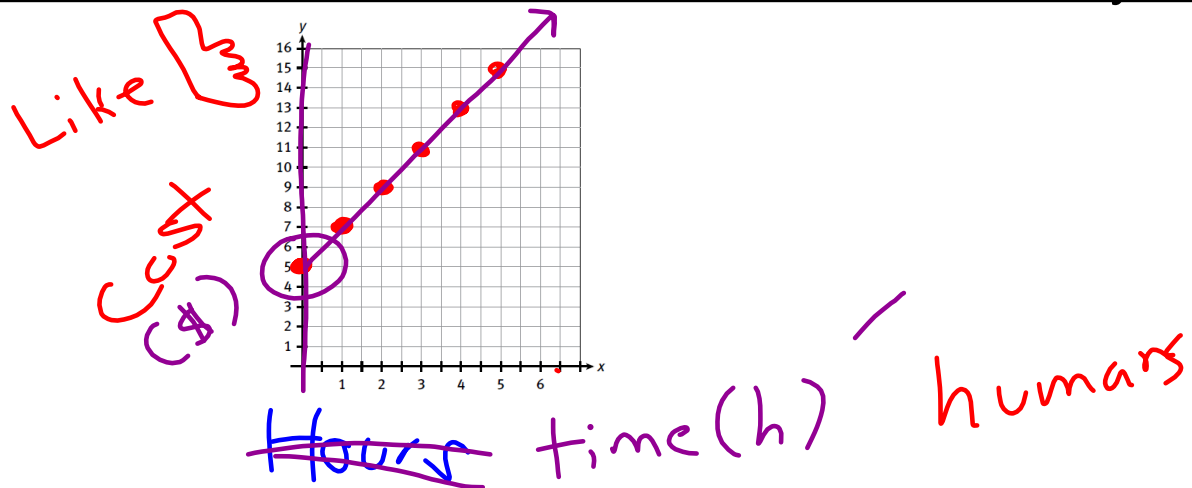
$$y = 2(10) + 5$$

$$y = 25$$

Mar 7-1:33 PM

In Class Work: pg. 8 #9

Day 1



Mar 7-1:33 PM

Today's Activities:

- Activity 1 - 2

P.W. for tonight:

- pg. 9 #9 - 13

Day 1

Day 3

Dec 31-9:59 PM