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Warmup 10/$\left(\sqrt{5} \cdot \sqrt{5} \cdot \sqrt{5} \cdot \sqrt{5}\right)$

EVERY GROUP NEEDS A GIANT WHITEBOARD, MARKER, AND ERASER!

1. Maria is making gift baskets. The graph shows the number of chocolates she has remaining after making gift baskets. What is the SLOPE of this graph, and what does it represent?

Chocolates remaining

(graph: Chocolates remaining vs Gift baskets assembled, line from 60 down to 10)

REMINDER

- The Table/Equation/Graph/Situation problems are due tomorrow.
- They are posted on my website!
- We will not have any more in-class time to complete them.

GOING OVER THE BENCHMARK!!!

- Note: This will go into the gradebook as a **formative assessment**. This means that although it shows up in the gradebook, it does not count towards your grade at all.
- The rubric is extremely confusing. Don't go crazy trying to understand it.

FIRST OF ALL…

Explain how the behavior of the graph over each of illustrates how Michelle spent her time in the park. possible. WHAT IS THAT!?

- $0 \le x \le 15$

In this situation, "x" represented minutes.

$0 \le x \le 15$: x is greater than or equal to zero, but less than or equal to 15.

So basically, x (the time) is between 0 and 15.

This was asking: "What was Michelle doing between 0 and 15 minutes?"

- $0 \le x \le 15$

she rollerbladed for 15 minutes

- $15 < x < 20$

She stopped for 5 minutes

- $20 \le x \le 35$

she increased her speed for another 15 minutes

- $0 \le x \le 15$

Michelle was skating at a constant speed.
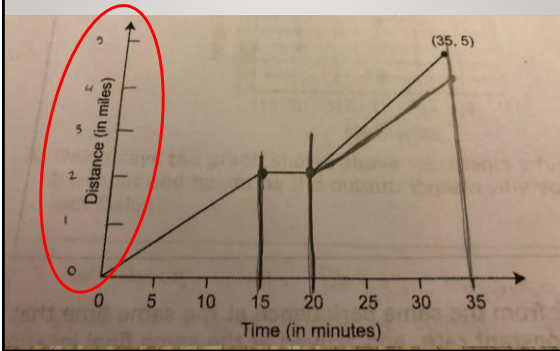
- $15 < x < 20$

Michelle was resting; not moving/constant speed.

- $20 \le x \le 35$

Michelle was skating at a faster but still constant speed.

Only NINE PEOPLE got Task 1 Part B!!!
Five who showed their work, and four who (I think) estimated...

"12 miles per hour" means you can go 12 miles in 60 minutes.
Here's one strategy that was better than what most people figured out, but still flawed...
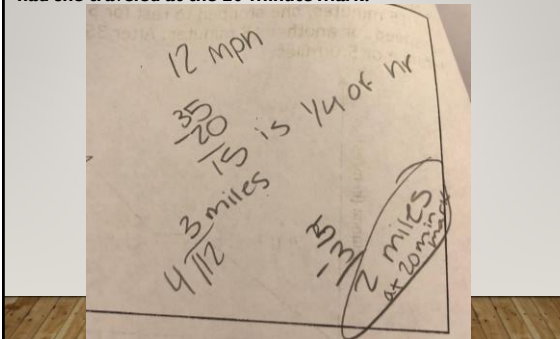
Part B

Michelle rollerbladed at a speed of 12 miles per hour for the 0 minutes to 35 minutes, how far had she traveled at the 20


It gave you the speed for the SECOND part, but it asked for the distance from the FIRST part!

"If Michelle rollerbladed at a speed of 12 miles per hour for the interval from 20 minutes to 35 minutes, how far had she traveled at the 20-minute mark?"


"If Michelle rollerbladed at a speed of 12 miles per hour for the interval from 20 minutes to 35 minutes, how far had she traveled at the 20-minute mark?"
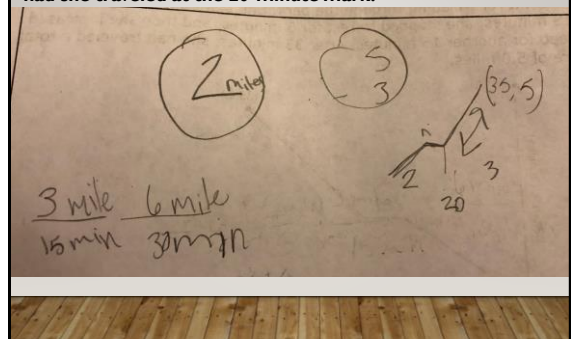
Task 1 Part C...

- **"Write an equation to model the relationship between time and Corey's distance traveled."**

- **It will be linear.   y = mx + b.**

- **He started with 0 miles. b = 0.**

- **Slope is ALWAYS "y-axis per x-axis." So miles per minute.**

- **Corey went 5 miles in 35 minutes.**

- $\frac{5\ miles}{35\ minutes} \rightarrow \frac{1}{7}$ **mile per minute.**

Or instead of miles per minute, you could figure out miles per hour...
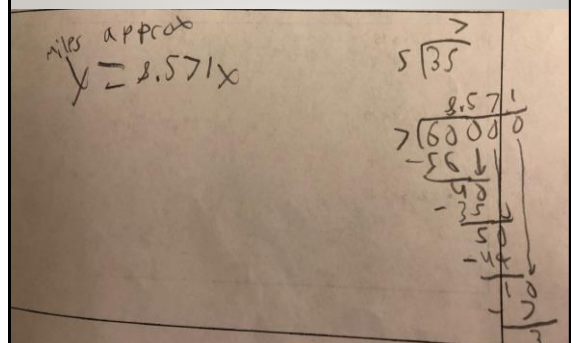
Task 2, both parts:

DOES EVERY INPUT HAVE ONLY ONE OUTPUT???

I disagree. If it's a function it should only have one height per age. Delon didn't do anything wrong persay, but height vs age isn't something that will neve result in a function ever, unless it's a single person's height vs age; because everyone is a different hight or won't follow the same pattern of growth. one output per input.


REST OF TODAY: Group Problems

• For each problem, your group will solve the problem on a giant whiteboard.

• **YOUR WORK MUST BE ORGANIZED. We should be able to <u>clearly</u> see your problem-solving process!!!**

• Switch writers for each problem.

• I will select some groups to share their answers.

• **Jack and Jill are selling cupcakes. Jack's total profit is given by the table to the left. Jill's total profit is given by the equation to the right. Who is gaining profit at a faster rate? How do you know?**

Number	Cost
1	$3.50
2	$6.50
3	$9.50
4	$12.50
5	$15.50

$$y = 2x + 20$$

Which tree is growing faster?

Tree A
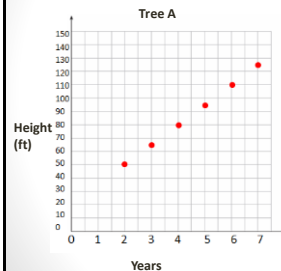
Tree B

Years	Height (ft)
0	4
2	22
4	40
7	67
10	94

Shipping packages…

• **Suppose UPS charges a $3.50 flat fee to ship a package. They also charge 20 cents per ounce.**
  • **Write an equation in slope-intercept form to represent the total cost of shipping x ounces.** $y = 0.20x + 3.50$
  • **How much would it cost to ship a 9-ounce package?**
    $5.30

• **At a different company, a 3 ounce package cost $2.50 to ship and a 5 ounce package cost $2.70 to ship.**
  • **How much does it cost per ounce?** **$0.10**
  • **Can you figure out what the flat fee was?**
    $2.20