## analyzeng real world graffis

Monday Madness: If you dressed up, please keep your packet out.



Warm Up Practice Notes Notes Homework

### Don't for gett

- Quiz tmr!!
- Extra Credit due Friday
  - The six weeks ends

## WHEN-UP MONDAY

- 1. The cost to send a Skype call is \$0.07 per minute with a connection fee of \$0.50. Which is the independent variable?
  - A. Total cost of the call.?

    The connection fee.
- E Cost per minute.

  D. Number of minutes.
- 2. A function is given by the equation below. Name the dependent variable.

g(t) = -8t<sup>2</sup> +45

). -8 D/ 45

## EVALUATERS FRASTESS

Directions: Cut the 12 linking cards along the dark borders. Shuffle the cards. Start with any card. Evaluate the function at the given value of x. Find the number which represents the solution. Evaluate the new function using the given value of x.

Continue linking until the solution to the last card is the number on the first card you started with.

	$f(x) = 5x^2 - 10$ $f(-2)$	10	f(x) = -3x + 2 $f(-2)$	8	f(x) = x - 6 $f(-2)$
-8	g(x) = -3x $g(-2)$	6	g(x) = 4x - 1 $g(-2)$	9	$g(x) = x^2 + 9$ $g(-2)$
13	h(x) = -x - 7 $h(-2)$	-5	h(x) = 3x + 2 $h(-2)$	-4	h(x) = x + 1 $h(-2)$
-1	f(x) = -1 - 4x $f(-2)$	7	$g(x) = -x^2 + 4$ $g(-2)$	0	$h(x) = \frac{x+4}{2}$ $h(-2)$

Write down the question and then your work. This is due by the end of class tomorrow (you can work on it after your quiz)

## TEKS Check Averages

2nd - 52.4%

3rd - 59.1%

4th - 58.9%

5th - 58.5%

#### Corrections

You can pick up TOMORROW.

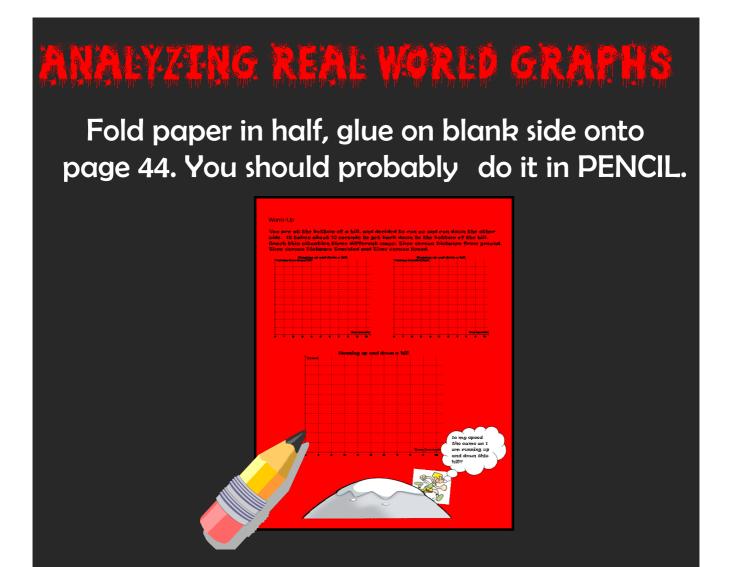
Will be done ONLINE. You
must watch the videos FIRST,
then come to tutoring with
evidence. You will then
complete the re-test
questions.

DUE BY 4:15PM TUES 11/4

#### Ms. Korotkow's Tutoring Availability End of 2nd Six Weeks

Monday	Tuesday	Wednesday	Thursday	Friday
27	28	29	30	31
NO TUTORING	8:15-9:00AM 4:30-5:00PM at Starbucks (Coit)	8:15-9:00AM 4:15-4:40PM	NO-TUTORING 8:15-9:00AM	8:15-9:00AM Extra Credit due by 1:30PM
3	4	5	6	
8:30-9:00AM	8:15-9:00AM	8:15-9:00AM	NO TUTORING	
All late HW due 4:15PM	TEKS Check Test Corrections due by 4:5PM		End of 2 <sup>nd</sup> six weeks	

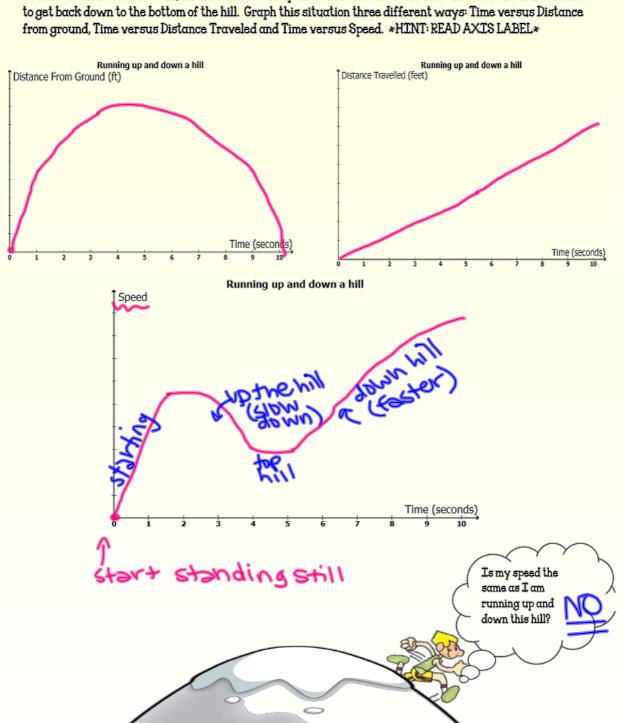
If you cannot make the above listed times, check the purple sheet to find another algebra teacher to get help from. Please note that the deadlines listed above are firm, no work will be accepted after the listed time.

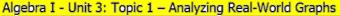


#### Algebra I - Unit 3: Topic 1 - Analyzing Real-World Graphs Nb 🔁 🔘 -

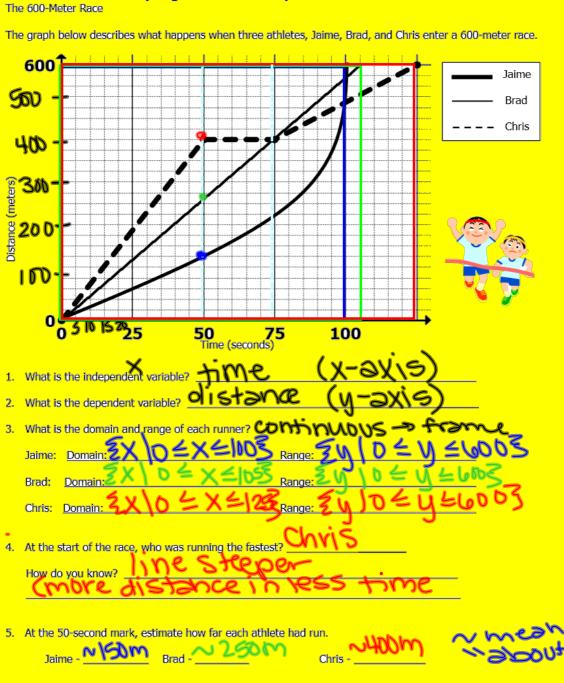
#### Warm-Up

You are at the bottom of a hill, and decided to run up and run down the other side. It takes about 10 seconds





#### Student Notes - Analyzing Real-World Graphs



6. At the 75-second mark, estimate how far each athlete had run.

Brad - ~ +00w

	Who was winning the race at 25 seconds?	
	Who was winning the race at 80 seconds?	
	Which two runners were tied at 75 seconds?	_
0.	Which two runners were tied at 98 seconds? The seconds?	_
1.	Which two runners were tied at 99 seconds?	
2.	Who finished the race first? Talme	_
3.	Who was in second?	_
<del>1</del> .	Who was last?	
5.	By how many seconds did the winner outrun the second place finisher?	
5.	By how many seconds did the second place finisher outrun the third place finisher? 20 Sec	_
7.	If the race had only been 300 meters, who would have won?	
	How do you know? he reached 300 m first	
3.	Pretend you are a radio sports commentator calling this race. Write what you would say to describe someone not watching the race.	the race
		0440

Algebra I - Unit 3: Topic 1 – Analyzing Real World Graphs						
Practice - Analyzing Real-World Grap	No Textbook Correlation					
Name	Date	Period				

The Walk Home Distance in Meters Rita 1500 Jose 1400 1300 1200-1100 1000 900 800 700 600 500 400 300 200 100 Minutes

8

10 11 12 13 14 15

The graph above shows the time it took Rita and her brother Jose to walk the 1500 meter distance home. Each student took a different route. Use the graph to answer the questions below.

6

- 1. What is the independent variable? \_\_\_\_\_
- What is the dependent variable? \_\_\_\_\_\_
- 3. What is the domain and range of each person's graph?

 Rita:
 Domain:
 Range:

 Jose:
 Domain:
 Range:

4. In the beginning, who was walking the fastest and would get home quicker?

How do you know?

5. At the 5 minute mark, estimate how far each person had walked.

Rita - \_\_\_\_\_ Jose - \_\_\_\_

6. At the 5 minute mark, ho was getting home faster?

When did that sibling actually get home?\_\_\_\_\_

#### Algebra I - Unit 3: Topic 1 - Analyzing Real World Graphs

- 7. When were the two siblings the same distance from home?
- 8. Who got home first? \_
- 9. How long did it take him/her?
- 10. How long did it take the other to get home?
- 11. How much longer did it take him/her to get home? \_\_
- 12. If the distance home had only been 400 meters, who would have gotten home first?

How do you know? \_

13. At the grocery store, dried beans are on special for \$0.45 for 3 ounces. Which of these graphs best represents the relationship between the number of ounces of dried beans and the cost?

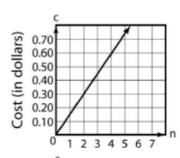
Α Cost (in dollars) 0.70 0.60 0.50 0.40 0.30

0.20

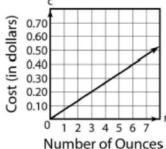
0.10

1 2 3 4 5 6 7 Number of Ounces

Cost (in dollars) 0.70 0.60 0.50 0.40 0.30 0.20 0.10 2 3 4 5 6 **Number of Ounces** 



D



# Homework Check

- 1. Minutes (Time)
- 2. Distance (Meters)
- 3. Rita Domain:  $0 \le x \le 14$  Range:  $0 \le y \le 1500$  Jose Domain:  $0 \le x \le 12.5$  Range:  $0 \le y \le 1500$
- 4. Rita; the line representing her walk is steeper
- 5. Rita 750 m; Jose 400m
- 6. Rita; 14 minutes
- 7. 11 minutes
- 8. Jose
- 9. 12.5 minutes
- 10.14 minutes
- 11. 1.5 minutes
- 12. Rita; she got to the 400m mark first.
- 13. C

Tomorrow is Tacky Tourist Tuesday!