NAME

Module 2 Topic 3 Review

Essential Standard (8.F.A.1): I can determine if the given relation is a function and justify my answer.

- 1. Which of the following are ways that you can tell if a relation is a function. (SELECT ALL THAT APPLY)
 - If every input has only one output a.
 - b. If no x-values repeat
 - If all of the x-values are different. C.
 - If all of the y-values are different d.
 - If the graph passes the vertical line test e.
 - If the graph passes the horizontal line test f.
 - If every output has only one input g.

2. Two input/output tables are shown below

Table A			
	input	output	
	3	-5	
	2	-4	
	1	-3	
	2	-2	
	3	-1	

Table B				
	input	output		
	-8	14		
	-2			
	1	6		
		0		
	9	-2		

- a. Is Table A function? Why or why not?
- b. What number(s) could you fill in the empty input space so that Table B will be a function?
- c. What number(s) could you fill in the empty output space so Table B will be a function?

3. Determine if each relation is a FUNCTION or is NOT A FUNCTION.



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Essential Standard (8.F.A.3): (8.F.B.5): : I can describe the characteristics of different types of graphs.

4. Circle all that apply for each graph.



Essential Standard(8.F.A.1): I can identify the domain and range of a relation.

5. Find the domain and range of the following relations.

A {(2,1), (-3,5), (4, 1), (2,9)}	B	C
Domain:	Domain:	Domain:
Range:	Range:	Range:

NAME_____ DATE_____ PERIOD: A B C D E F



Essential Standard (8.F.A.2): I can compare functions represented in different ways.				
10. Charlotte is comparing two different country clubs: Club Northwest and Club Southeast. Each company's costs are shown in the graph and the table to the right.	Club Southeast			
	Months (x) 1 3 6 8			
a. What is the cost per month of each club?	Cost (\$) (y) 300 380 500 580			
Club Northwest: per month				
Club Southeast: per month. b. Which club has a lower cost after 8 months?	Club Northwest (Cost of Membership) 700 650			
By how much?	600 550 500 450 Cost (\$) 400 350 300			
c. Which company has a higher sign-up fee? (cost at 0 months)	250 200 (0, 200) 150 100 50 1 2 3 4 5 6 7 8 9 10 1112 Months			
11. Tatsu and Marin are each writing a book. The equation p=0.4h + 15 represents Marin's rate of writing pages, where p=pages written, and h= hours spent writing.	12. Roxy and Ellie sell tickets to the Super Bowl. They start selling tickets at the same time. Roxy's rate of selling can be shown by the equation t=5m+500 where t=tickets sold and m=minutes sold.			
The equation below represents Marin's writing rate. $p=0.4h+15$	Roxy's rate: t=5m+500			
The graph below represents Tatsu's writing rate.	x y Ellie's rate: 0 600 4 612 8 624 12 636			
Who wrote at a faster rate?	 Circle one to make the statement true. a. Roxy's rate of selling tickets is greater than/ less than / same as Ellie's rate of selling tickets. b. Roxy's amount of tickets she starts with is greater than/ less than/ same as Ellie's amount of tickets she started with. 			