Wa	ırmı	лр 9	$\left(\frac{4!}{4!}\right)$	reated by	$\sqrt{4}$	m) Thi	s is W	/eek 6	!!!	
Try 3″	to figure or some	e out the thing sim	rules. W ilar.	/rite each	rule in th	/ ne form	"Output	= Input +		
1)	Input	Output	2)	Input	Output	3)	Input	Output		
	9	-9		6	10		2	13		
	5	-13		0	-2		5	25		
	32	14		13	24		6	29		
	-6	-24		30	58		7	33		
	99	81		6	10		100	405		
	Output =	Input – 1	8 OI	utput = In	put•2 – 2	0	utput = Ir	nput•4 + 5		
4)	Input	Output			5) The	exclama	tion point	in Ms.		
	5	15	Output = Input ² – 10		10 Nieme	Niemec's problem above is actually a mathematical symbol. Based on the				
	7	39			mathe					
	-7	39	39 figure out what 4 90 (And is there any			figure out what 4! should be en			", can you d be equal	to?
	10	90				(And is there anyone who actually				
	2	-1			knows	knows what the ! sign does?)				





Unit 1 QUIZ

- The deadline to retake is Wednesday!
- Your corrections/extra practice is due TOMORROW!
- If you are retaking the quiz on the day of the deadline, <u>you</u> <u>must be done by the end of lunch</u>. This means you probably need to start at the beginning of PLT.





A couple more "guess my rules..."

Raise your hand if you know the rule!

Play "Guess My Rule" in pairs

- Let me know if you have nobody to join with!
- Take turns thinking of rules. You may make the rule whatever you want, but you may not use a calculator!!!

Would this be a fair rule?					
<u>Input</u>	<u>Output</u>				
9	45				
5	31				
1	7				
-4	-18				
5	27				

is be a fair rule	?
<u>Output</u>	
45	
19.5	
-0.5	
13	
45	
19	
]	nis be a fair rule Output 45 19.5 -0.5 13 45 19

Would t	nis be a fair rule?	
<u>Input</u>	<u>Output</u>	
1	-6	
2	-3	
3	2	
5	18	
7	42	
10	93	

Would t	his be a fair rule?	
<u>Input</u>	<u>Output</u>	
5	13	
2	13	
97	13	
-3.2	13	
0	13	i



Rest of today:

- We will simply be asking the question "Is this a function???"
- We will do more practice later with trying to figure out what the rule is. But for now, all we care about is if the rule is FAIR or not.



Function?	Х	у		
	-8	16		
	10	-20		_
	1	-2		_
	4	-8		_
	1	-2		_
Yes; the	re is a	repea	ted input,	
but the	outpu	t is the	same.	



Function?	х	у		
	1	24		
	2	9		
	3	-6		
	4	-21		
	5	-36		
Yes; each output.	input l	has on	ly one	

Function?	х	У			Function?
	1	-2			(2, 8); (-5, 9); (7, 9); (2, -4), (7, 4)
	2	-2			
	3	-2			
	4	-2			
	5	-2			
Yes; each input has only one output. (You can have the same output for multiple inputs!)					No; the input "2" has more than one output.



























Rules for graphs of functions

- ON A GRAPH:
 - The x-value (horizontal) is the INPUT and the y-value (vertical) is the OUTPUT.
- To be a function, each x-value can only have one y-value.







