<u>Ch 1.4 Functions:</u> a relationship between two numbers, called the Input and Output, in which the for every input value there is exactly one output. (plug in one number, get one answer.)

<u>Input</u>- is the independent value that is substituted <u>into</u> the problem. (x's)

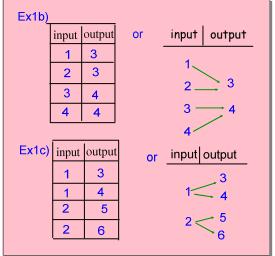
<u>Output</u>- is the dependent value that the problem equals. (y's)

<u>Domain</u>- is the collection of input values.

Range- is the collection of output values.

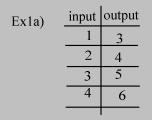
<u>Function Rule</u> - is an equation that models the situation.

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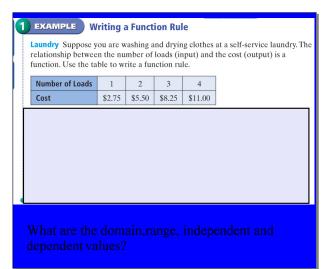
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Determine if the following are functions, if so list the domain and range of the function.

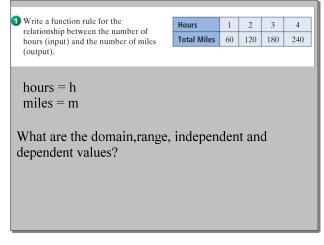


*DATING GAME

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If a function has more than one step, write it using this format: y = mx + b (slope intercept)

output variable = (the pattern in the output)input variable + #

represents what you start with at 0 for the output.

*when you look at the pattern in the output, the input has to be in increments of 1.

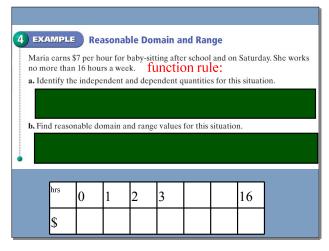
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Example 2)							
	#students	1	2	3	4		
	# books	32	34	36	38		
Write a function rule:							
	are the domai lent values?	n,ran	ge, ir	ndepend	lent and		

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# weeks	Savings	Try				
1	\$52	function rule:				
2	\$64					
3	\$76					
4	\$88					
What are the domain, range, independent and dependent values?						

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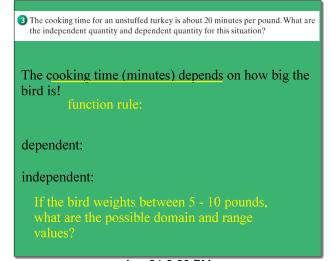


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Example 2b) # hr \$ Canoe Rental function rule: 1 \$15
2 \$25
3 \$35
4 \$45

What are the domain, range, independent and dependent values?

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Ken burns 425 calories/hr when he bikes. He bikes 3 - 7 hr each weekend.	
Function Rule:	
Independent:	
Dependent:	
Domain:	
Range:	

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