

Objective TSW understand that a function is... *relation between set of inputs and outputs

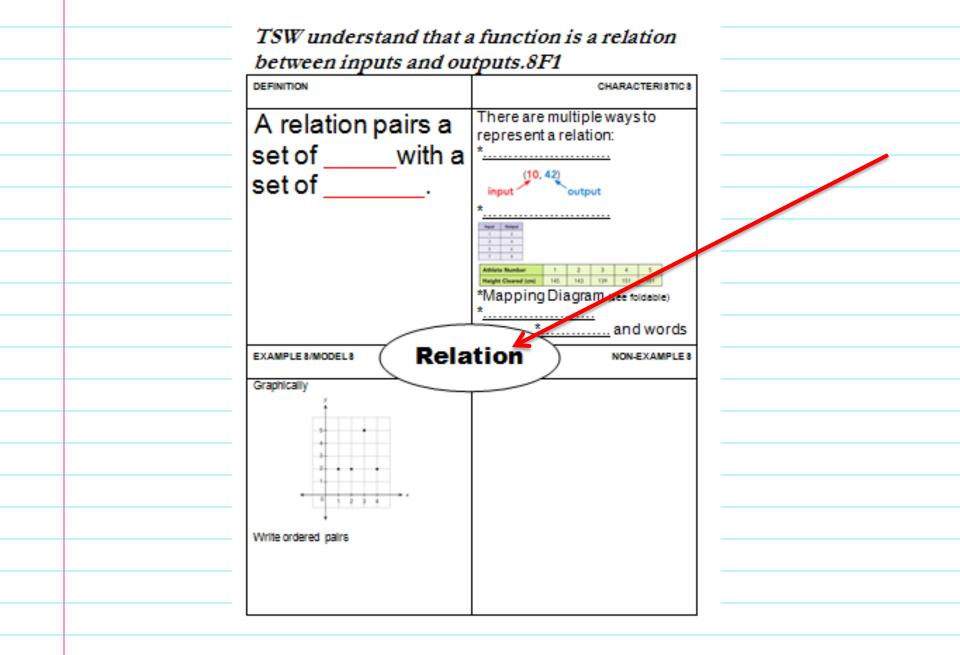


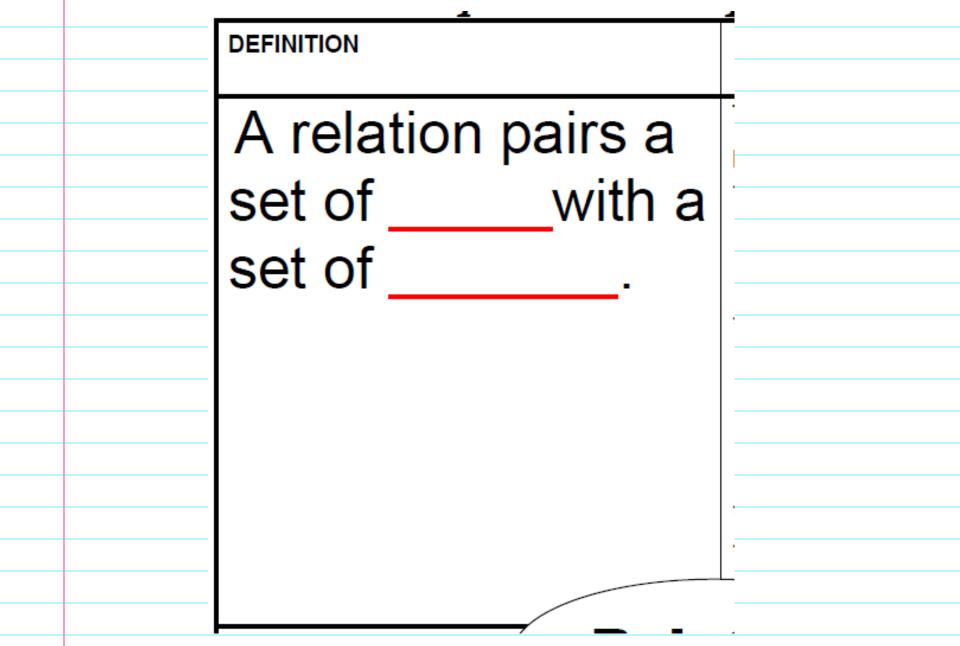
A function is a relation
between a set of inputs
and a set of outputs,
in which every input
has exactly one output.
You can use tables,
graphs, and equations to
represent many functions.

Common Core State Standards

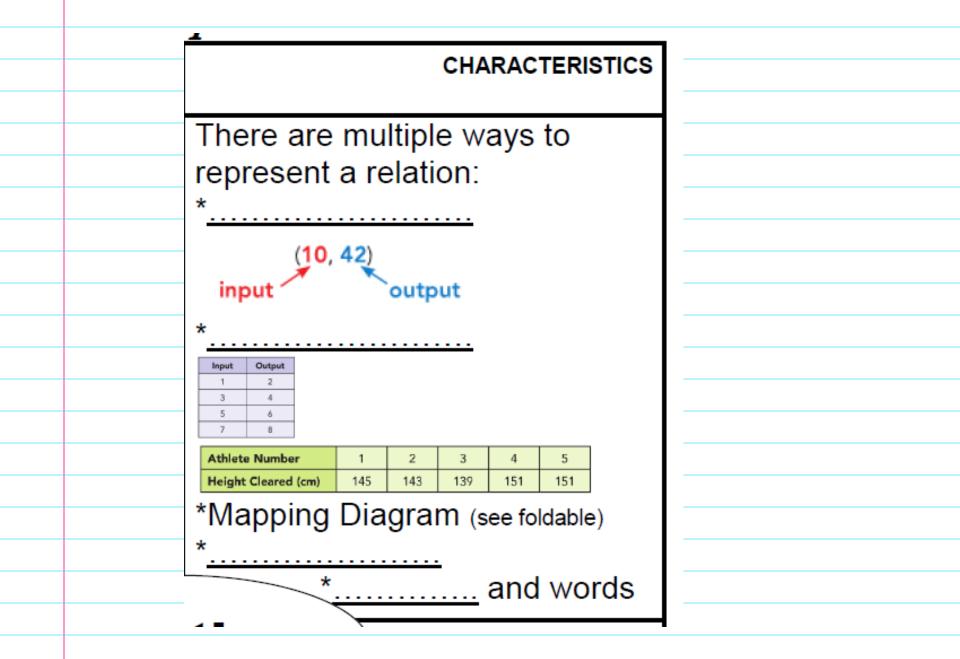
8F1 Understand that a function is a rule that assigns to each input exactly one output. 8F4 Construct a function to model a linear relationship between two quantities 8F5 Describe qualitatively the functional relationship between two quantities by analyzing a graph...

Mathematical Practices MP1 Solve problems/persevere MP2 Reason MP 4 Model Mathematics

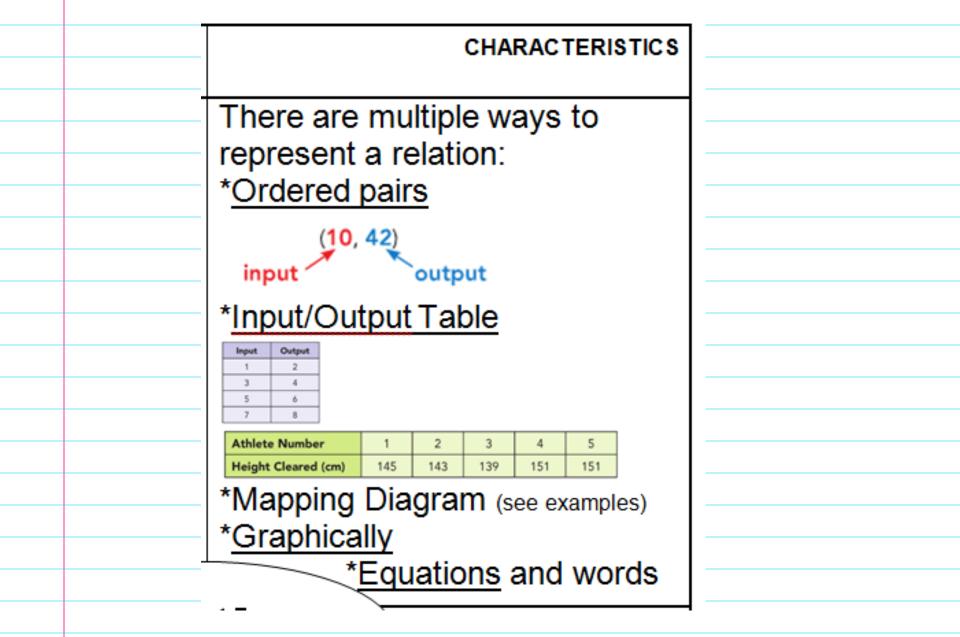


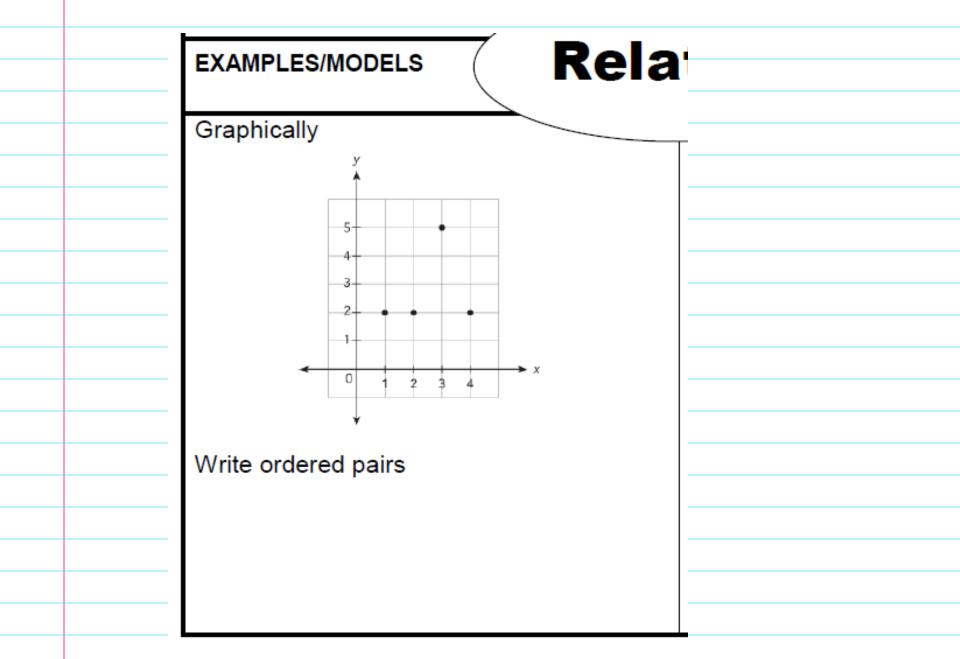


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	DEFINITION	
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	set of <u>inputs</u> with	
	a set of outputs.	
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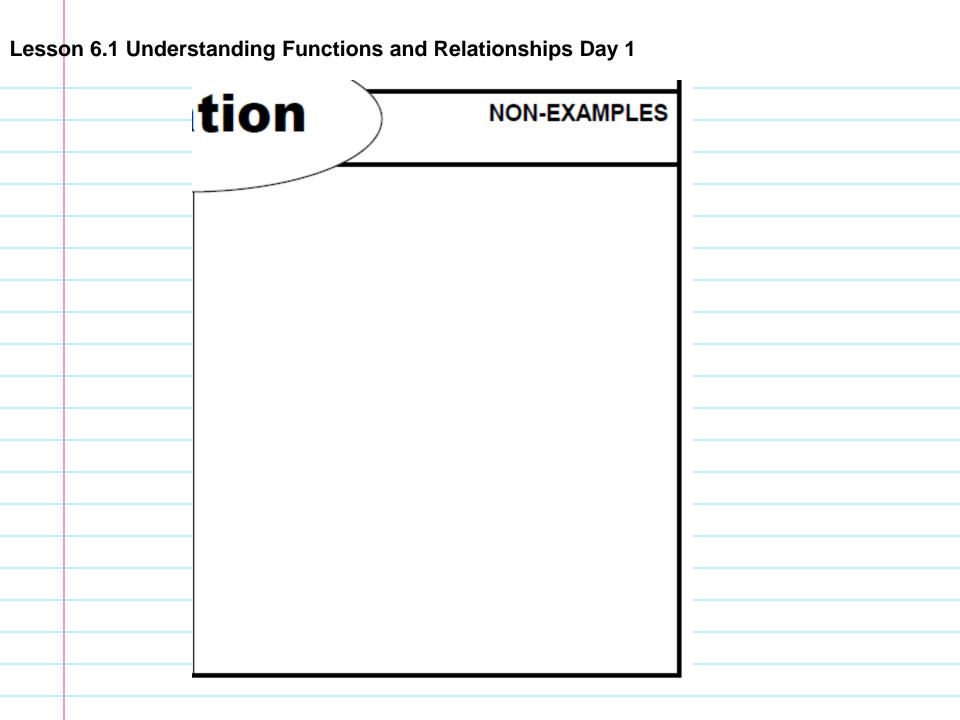


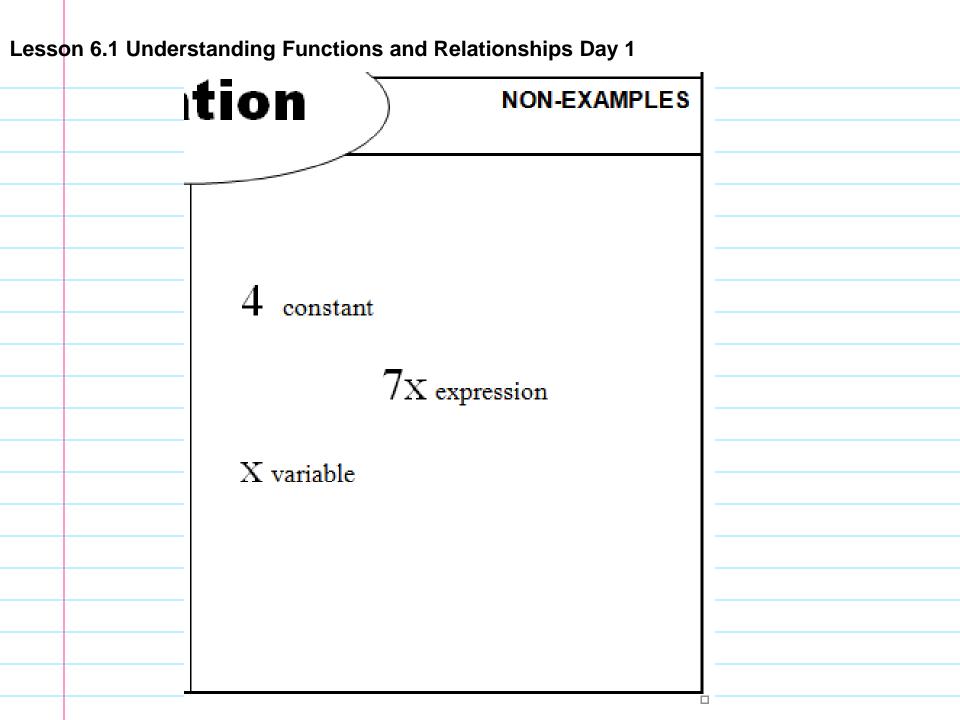


Relat EXAMPLES/MODELS 5 з 2 0 Write ordered pairs $\{(1,2), (2,2), (3,5), (4,2)\}$ y = 4x + 6

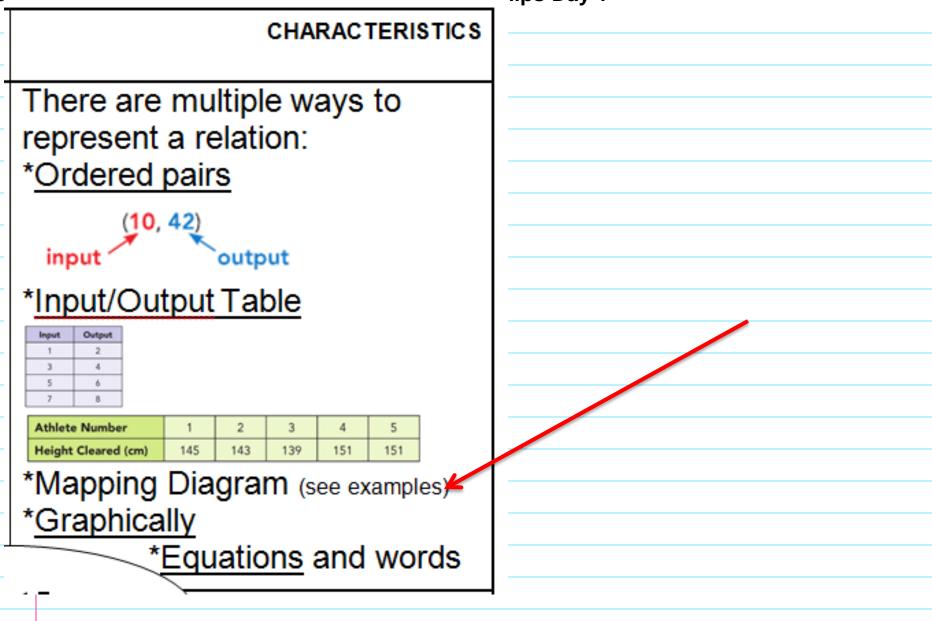
Lesson 6.1 Understanding Functions and Relationships Day 1

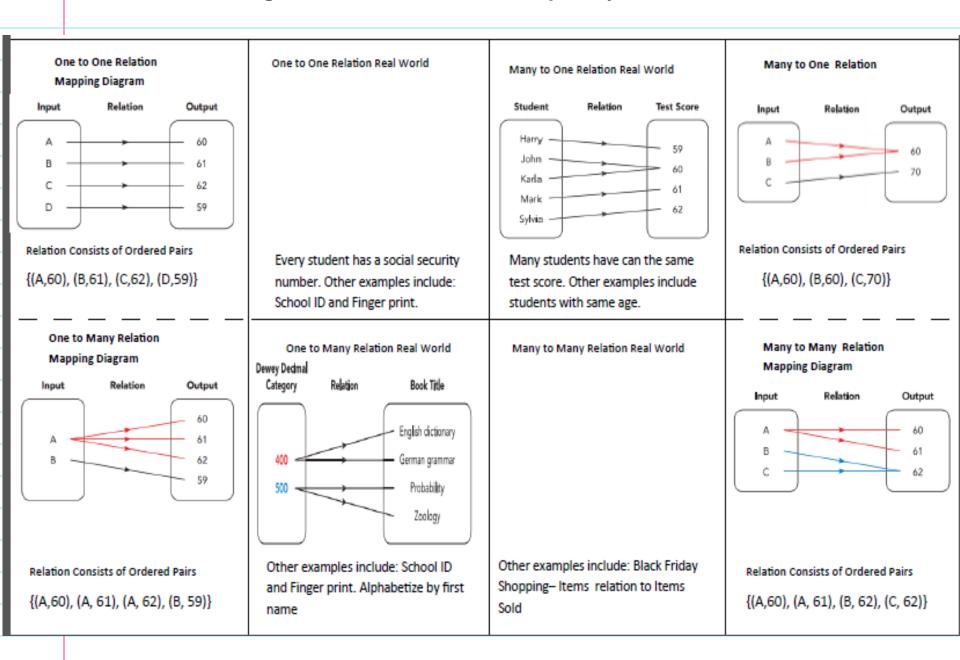
I notice that the equation is written in slope intercept form

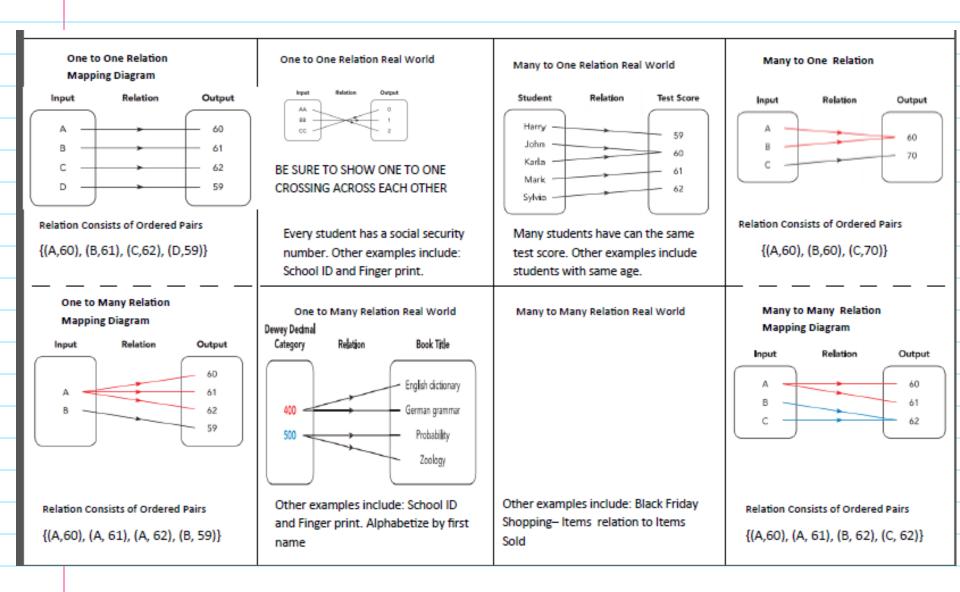










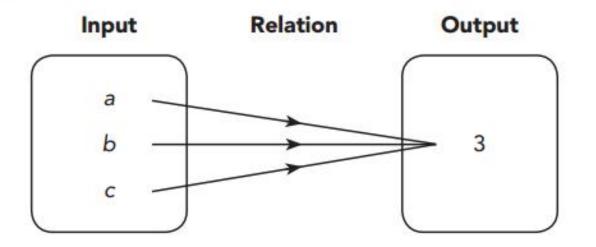


Guided Practice

Complete.

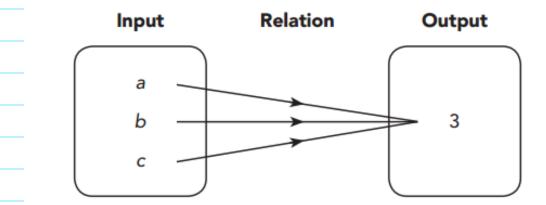


Describe the relation between the inputs and the outputs.



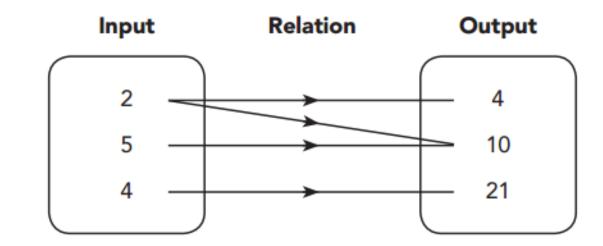
The relation between the inputs and the outputs is a _____to-___ relation.

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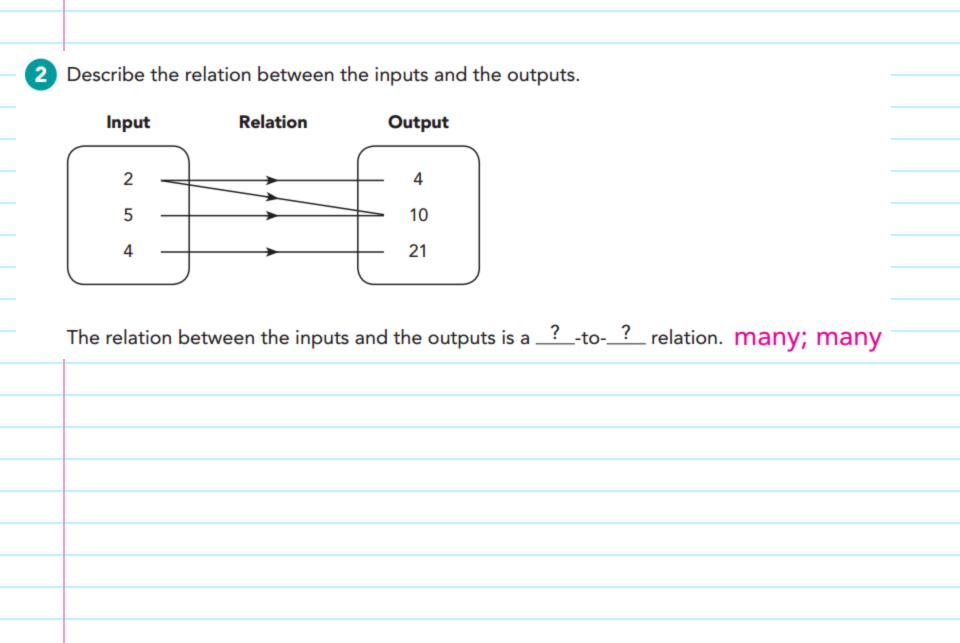


The relation between the inputs and the outputs is a <u>?</u>-to-<u>?</u> relation. many; one

2 Describe the relation between the inputs and the outputs.



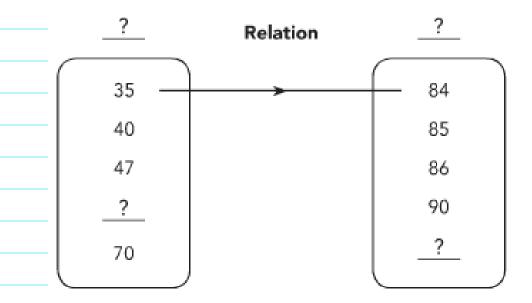
The relation between the inputs and the outputs is a _____to-___ relation.-



3 The table shows the relation between the heights of five statues and their weights.

Height (in.)	40	35	56	70	47
Weight (lb)	85	84	90	99	86

Copy and complete the mapping diagram to show the relation between the heights of the five statues and their weights. Then identify the type of relation between the heights and the weights.



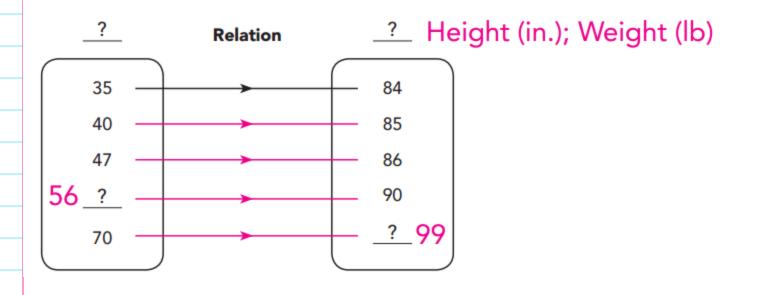
The relation between the heights and the weights is a _____-to-____ relation.

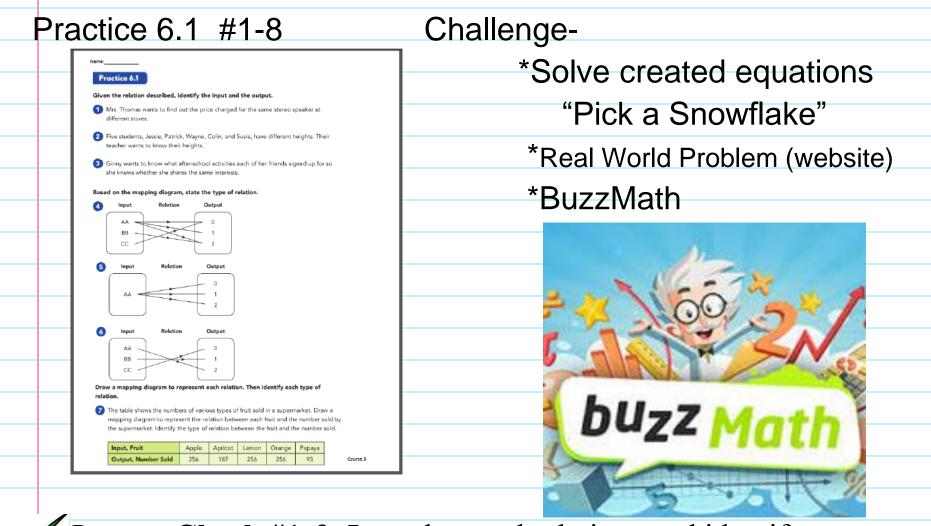
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Lesson Check #1 & 5– understand relations and identify types

of relations

Ticket Out the Door- Connect, Extend, Challenge

1.	How are the ideas and information presented CONNECTED to what you already knew?
2.	What new ideas did you get that EXTENDED or pushed your thinking in new directions?
3.	What is still CHALLENGING or confusing for you to get your mind around? What questions, wonderings or puzzles do you now have?