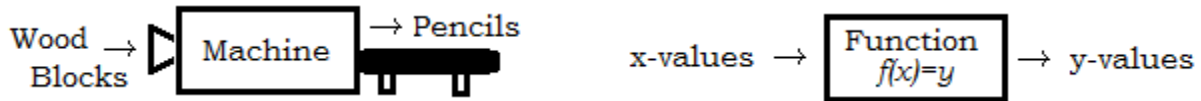
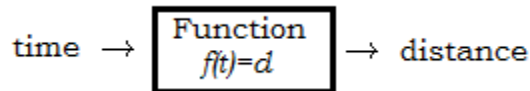


**$m^2$  = math minute**  
Episode 1: What is a function?



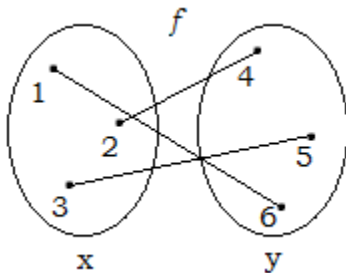
**Specific example of a function:**

Given an amount of time, we can find the distance traveled.  
The time is the x-value and the distance is the y-value.



**Here is an example of a function displayed in 4 different ways:**

Function Map



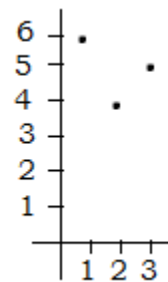
Ordered Pairs

$(x, y)$   
(1, 6)  
(2, 4)  
(3, 5)

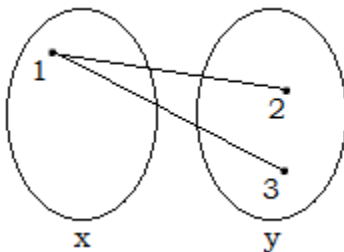
Solutions

$f(x)=y$   
 $f(1)=6$   
 $f(2)=4$   
 $f(3)=5$

Graph

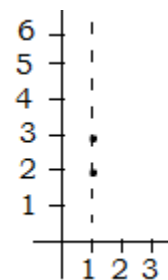


**NOT EVERYTHING IS A FUNCTION!**



$(x, y)$   
(1, 2)  
(1, 3)

$f(x)=y$   
 $f(1)=2$   
 $f(1)=3$



**Vertical Line Test:** If you can draw a vertical line on a graph that intersects two or more points, the graph is NOT a function.