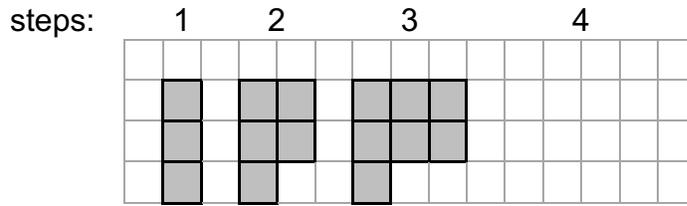


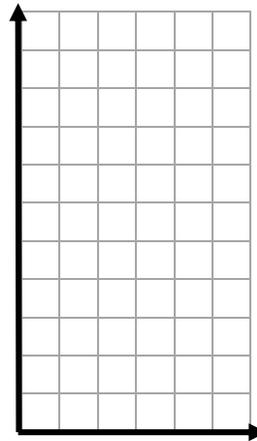
8-4 QUIZ A

1. Below is a square pattern.



- a. Draw the 4th step for the pattern.
- b. Fill in the table for steps 1 – 4 from above, and use the pattern to also complete steps 0 and 5. Then complete a graph (include labels).

step # (x)	# of squares (y)
0	
1	
2	
3	
4	
5	



- c. Write an equation to represent the pattern.
- d. Find the step number when there are 89 squares.
- e. What value represents the rate of change for this pattern?
- f. How do you interpret the rate of change...

In the picture:

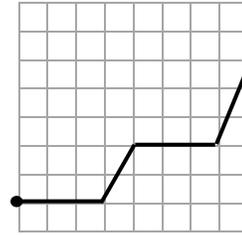
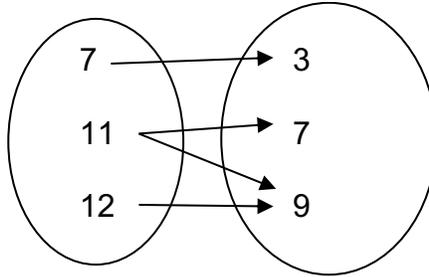
In the table:

In the graph:

8-4 QUIZ A
Continued

2. Of the five representations below, circle all that could represent a function.

x	y
1	12
3	9
4	12
5	15
9	20

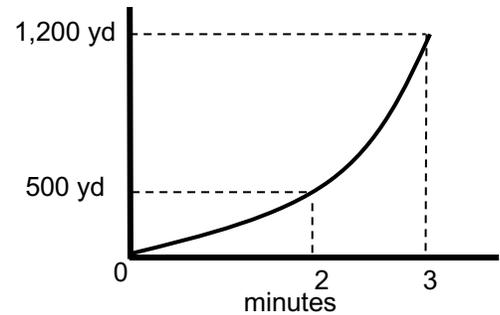


(12, 3), (8, 6), (7, 7), (12, 8)

(1, 7), (4, 12), (10, 7), (2, 15)

3. Carl went for a morning walk represented by the graph below.

- Could it represent a function?
- Does it appear to be linear?
- In which section was Carl walking faster, 0 – 2 minutes or 2 – 3 minutes? Explain.



4. Liam started a savings plan with \$30 in the bank and is saving \$20 each week. Noah started a savings plan at the same time and kept track on this graph.

- Graph Liam's savings on this graph.
- Who is saving at a greater rate? Explain.

