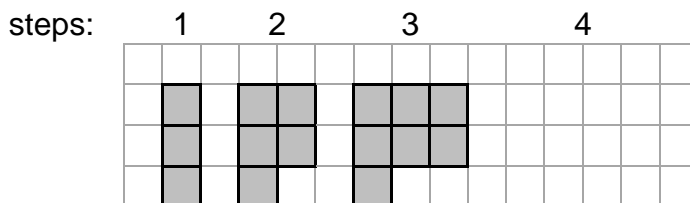


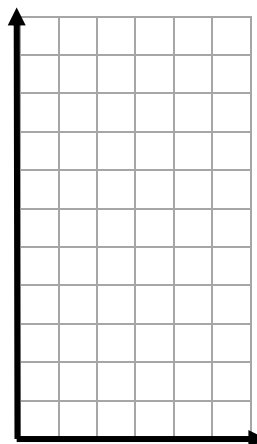
### QUIZ 8-4A

1. Below is a square pattern.



- Draw the 4<sup>th</sup> step for the pattern.
- Complete the table and graph for the square pattern. Make sure to include labels.

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

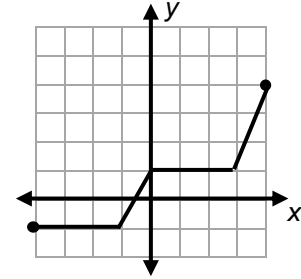
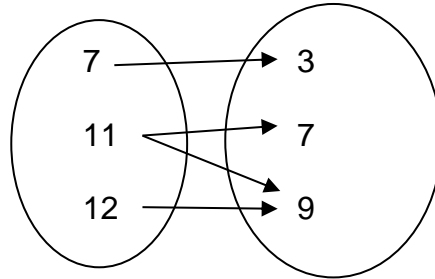


- Write an equation to represent the pattern.
- Find the step number when there are 89 squares.
- What value represents the rate of change for this pattern?
- How do you interpret the rate of change in the picture? The table? The graph?

**QUIZ 8-4A**  
Continued

2. Circle all of the five representations below that could represent a function.

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

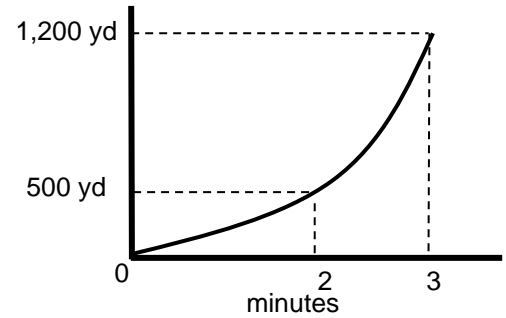


(12, 3), (8, 6), (7, 7), (12, 8)

(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?
- When was Carl walking the fastest? 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.

