

LESSON: Linear & Non-Linear Functions

Function Unit

Name: _____ Hour: _____

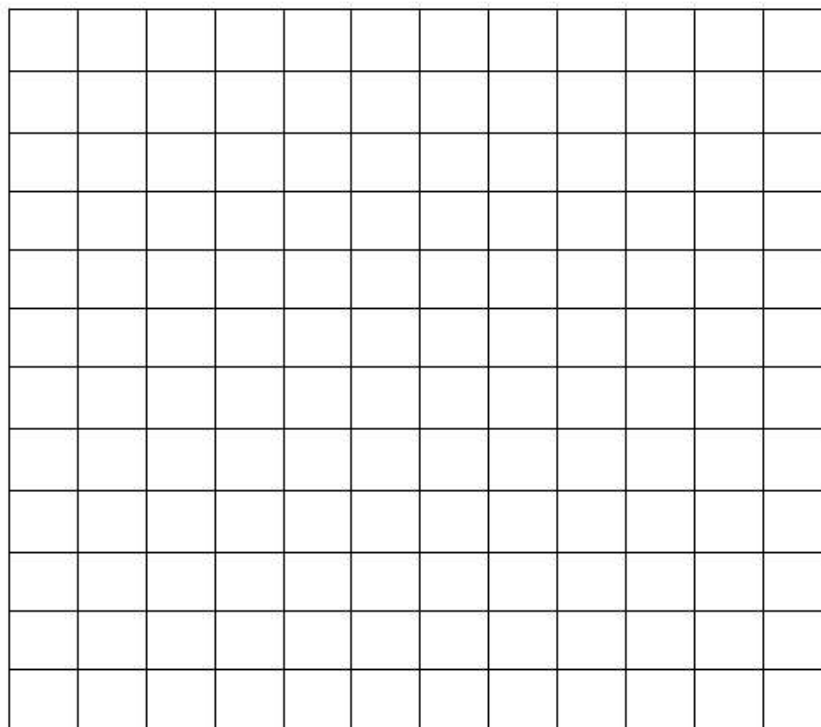
CHALLENGE QUESTIONS:

1. Given a square with length x , fill in the table with the perimeter.

Length of side, x (in cm)	0	1	2	3	4	5	6
Perimeter of square, y (in cm)							



2. Now graph the information from the table on the graph below. Be sure to label the axes.



3. What do you notice about the points? Would you consider this a function, why or why not?

4. **From the graph**, can you predict the perimeter for a square with side length 8 cm? Why or why not?

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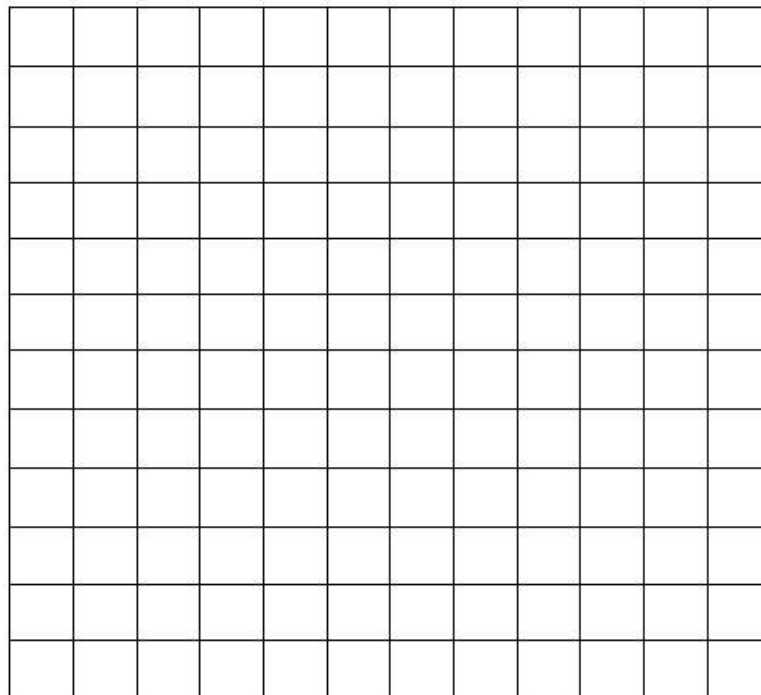
Function Unit

5. Given a square with length x , fill in the table with the area.

Length of side, x	1	2	3	4	5	6
Area of square, y						



6. Now graph the information from the table on the graph below. Be sure to label the axes.



7. What do you notice about the points? Would you consider this a function, why or why not?

8. **From the graph**, can you predict the perimeter for a square with side length 8 cm? Why or why not?