

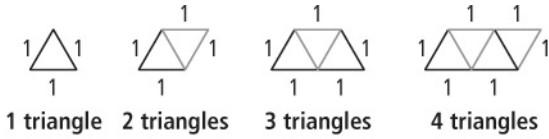
Name: \_\_\_\_\_  
 Algebra 1

Date: \_\_\_\_\_  
 Band: \_\_\_\_\_

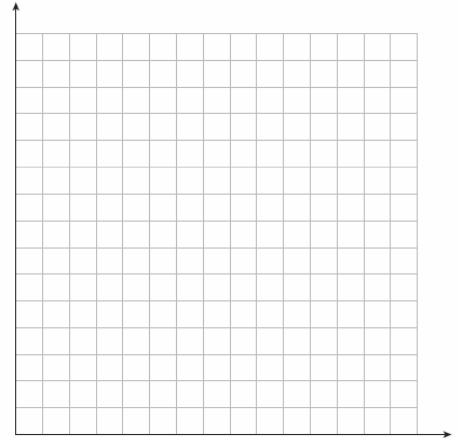
**LT#2: Identify and represent patterns that describe linear functions.**

**For each diagram, find the relationship between the number of shapes and the perimeter of the figure they form. Represent this relationship using a table, words, an equation, and a graph.**

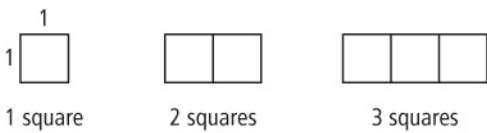
1.



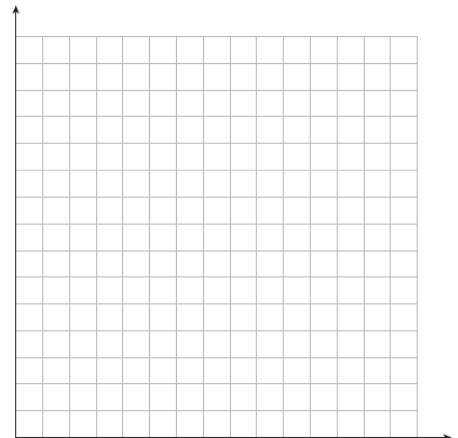
Triangles	1	2	3	4	5	6		$n$
Perimeter	3	4	5				12	



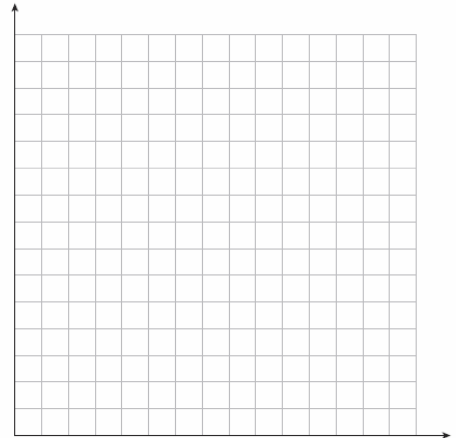
2.



Squares	1	2	3	4	5	6		$n$
Perimeter	4	6	8				22	



3. You can make a bubble solution by mixing 1 cup of liquid soap with 4 cups of water. Represent this relationship between the cups of liquid soap and the cups of bubble solution made using a table, an equation, and a graph. Is the amount of bubble solution made a function of the amount of liquid soap used? Explain.



For each table, determine whether the relationship is a function. Then represent the relationship using words, an equation, and a graph.

4. Distance Traveled

Time (h)	Distance (mi)
0	0
1	55
2	110
3	165

5. Calories Burned

Minutes (min)	Calories (C)
0	0
10	50
20	100
30	150

