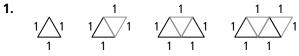
_ Class _____ Date ___

Practice

Patterns and Linear Functions

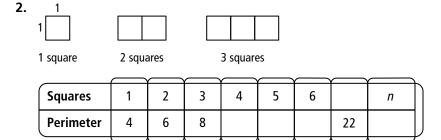
For each diagram, find the relationship between the number of shapes and the perimeter of the figure they form. Represent this relationship using a table, words, an equation, and a graph.

4 triangles



1 triangle 2 triangles 3 triangles

	\square	\square	\square	\square	\frown	\frown	\frown	\frown	r
Triangles	1	2	3	4	5	6		п	$\left[\right]$
Perimeter	3	4	5				12		J
									٢



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

3.	x	У
(0	1
ĺ	1	3
(2	5
(3	7

	x	у	
	0	6)
	1	7)
	2	8)
	3	9)
1			-

4.

Practice (continued)

Patterns and Linear Functions

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

Class Date

6.

5. Distance Traveled

	Time (h)	Distance (mi)	
$\left[\right]$	0	0)
$\left[\right]$	1	55)
$\left[\right]$	2	110)
$\left[\right]$	3	165)
Τ)	

	Calories Burned				
	Minutes (min)	Calories (C)			
$\left(\right)$	0	0)		
$\left(\right)$	10	50)		
$\left(\right)$	20	100)		
$\left(\right)$	30	150)		
٦					

- 7. Reasoning Graph the set of ordered pairs (0, 2), (1, 4), (2, 6), (3, 8). Determine whether the relationship is a linear function. Explain how you know.
- 8. You can make a bubble solution by mixing 1 cup of liquid soap with 4 cups of water. Represent the 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.