



Name \_\_\_\_\_

Date \_\_\_\_\_

1. The table shows the first three terms in pattern A and in pattern B.

<b>Pattern A</b>	0	3	6		
<b>Pattern B</b>	0	$2\frac{1}{2}$	5		

- Complete each pattern in the table.
- What will be the number in pattern B when the number in pattern A is 18?
- What will be the number in pattern A when the number in pattern B is  $17\frac{1}{2}$ ?

2. Leo and Sasha create number patterns.

Leo's pattern: Start at 6 and multiply by 4.

Sasha's pattern: Start at 85 and subtract 6.

Record the first five terms of Leo's pattern and of Sasha's pattern in the table.

<b>Leo's Pattern</b>					
<b>Sasha's Pattern</b>					

3. Use the table to complete parts (a)–(c).
- Use the rules to complete the patterns.
  - Write the ordered pair for each pair of corresponding terms by writing the number from pattern A as the  $x$ -coordinate and the number from pattern B as the  $y$ -coordinate.

<b>Pattern A</b> Add 2	<b>Pattern B</b> Add 3	<b>Ordered Pair</b>
0	0	
2	3	
4	6	

- Plot the points in the coordinate plane.

