Name _____ Date _____

1. Complete the tables for the given rules.
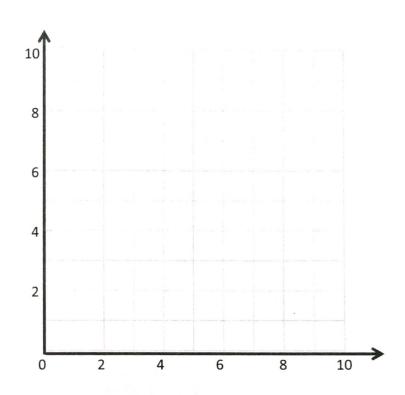
Line ℓ

Rule: *Triple x*

x	y	(x, y)
0		
1		
2		
3		

Line *m*

Rule: *Triple x, and then add 1*

x	y	(x, y)
0		
1		
2		
3		

a. Draw each line on the coordinate plane above.

b. Compare and contrast these lines.

2. Circle the point(s) that the line for the rule *multiply x by $\frac{1}{3}$, and then add 1* would contain.

$(0, \frac{1}{2})$ $(1, 1\frac{1}{3})$ $(2, 1\frac{2}{3})$ $(3, 2\frac{1}{2})$

Name _____ Date _____

Write the rule for the line that contains the points $(0, 1\frac{1}{2})$ and $(1\frac{1}{2}, 3)$.

a. Identify 2 more points on this line. Draw the line on the grid.

Point	x	y	(x, y)
B			
C			

b. Write a rule for a line that is parallel to $\overleftrightarrow{BC}$ and goes through point $(1, \frac{1}{2})$.