Name _____   *m*   Date _____

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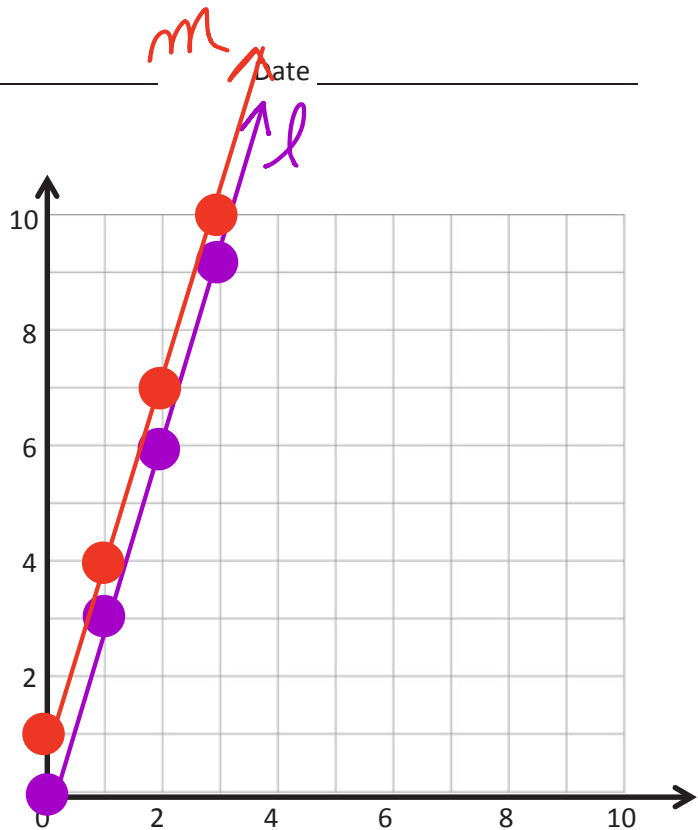
Line ℓ

Rule: *Triple x*

x	y	(x, y)
0	0	(0,0)
1	3	(1,3)
2	6	(2,6)
3	9	(3,9)

Line *m*

Rule: *Triple x, and then add 1*

x	y	(x, y)
0	1	(0,1)
1	4	(1,4)
2	7	(2,7)
3	10	(3,10)

a. Draw each line on the coordinate plane above.

b. Compare and contrast these lines.

The lines are the same except *m* has been shifted up 1 space.

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

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

$1 \times \frac{1}{3} = \frac{1}{3}$ $2 \times \frac{1}{3} = \frac{2}{3}$

$\frac{1}{3} + 1 = 1\frac{1}{3}$ $\frac{2}{3} + 1 = 1\frac{2}{3}$