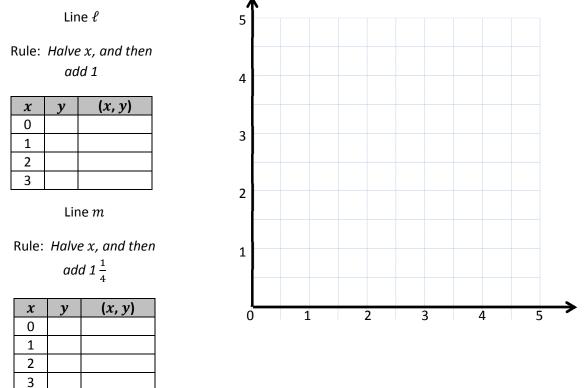


- a. Draw each line on the coordinate plane above.
- b. Compare and contrast these lines.
- c. Based on the patterns you see, predict what the line for the rule *double x, and then add 1* would look like. Draw your prediction on the plane above.
- 2. Circle the point(s) that the line for the rule multiply x by $\frac{1}{2}$, and then add 1 would contain. $(0, \frac{1}{2})$ (2, 1 $\frac{1}{4}$) (2, 2) (3, $\frac{1}{2}$)
 - a. Explain how you know.
 - b. Give two other points that fall on this line.





3. Complete the tables for the given rules.



- a. Draw each line on the coordinate plane above.
- b. Compare and contrast these lines.
- c. Based on the patterns you see, predict what the line for the rule *halve x, and then subtract 1* would look like. Draw your prediction on the plane above.
- 4. Circle the point(s) that the line for the rule multiply x by $\frac{3}{4}$, and then subtract $\frac{1}{2}$ would contain.

 $(1, \frac{1}{4})$ $(2, \frac{1}{4})$ $(3, 1\frac{3}{4})$ (3, 1)

- a. Explain how you know.
- b. Give two other points that fall on this line.



11 Analyze number patterns created from mixed operations

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