## Vocabulary

Gizmos

- <u>Linear inequality</u> an inequality whose graph is a half-plane with a linear boundary.
  - The linear inequality graphed to the right is y < 5x + 5.
    - The shaded part of the graph contains all points that are solutions of this inequality.
    - The boundary is the line with the equation y = 5x + 5, and is dashed because the inequality symbol used (<) does not include the "equal to" part.</li>
- <u>System of inequalities</u> a set of two or more inequalities that contain the same variables.
  - The solution to a system of inequalities is the set of all points that make all the inequalities in the system true.
  - The system of linear inequalities graphed to the right is y > 2x - 1 and  $y \le -x + 3$ .
    - The solution to this system is the purple shaded region of the graph.





