Example 1. A company makes two types of boats on different assembly lines: aluminum fishing boats and fiberglass bow riders.

- When both assembly lines are running, a maximum of 20 boats can be made in a day.
- The demand for fiberglass boats is greater than the demand for aluminum boats, so the company makes at least 5 more fiberglass boats than aluminum boats each day.

What combination of boats should the company make each day?
Example 2. The staff in a cafeteria are making two kinds of sandwiches: egg salad and ham and cheese.

- A maximum of 450 sandwiches are needed.
- Based on previous demand there should be at least twice as many ham and cheese sandwiches as egg salad sandwiches.

a) Define the variables and write a system of inequalities
b) Use desmos to find a possible solution