Unit TEST Review: Systems of Linear Inequalities

- What is the unit about: system, linear, and inequalities
- 2. Identifying and describing variables
 - -- Clear descriptions including units
 -- There will be two variables; not
 related to each other, but making
 decisions on how to balance them

3. Domain and Range

- -- Possible values of x and y
- -- Set the WINDOW accordingly

-- Be aware of whether the data is continuous or discrete

4. Creating INEQUALITIES to represent the Restrictions of the scenario

-- be able to read a scenario and interpret

-- can involve one or both of the variables

5. Sketch the graph

- -- Setting the WINDOW
- Sketching the shape of the linear inequalities (Remember to include: labels, intercept values, and shape)
 can use TI-83 tools (VALUE and ZERO)
- -- or you can calculate manually
- 6. Solution Set
 - -- identify the region of the solution
 - -- mark the corners using INTERSECT
 - -- verify using a TEST point

- 7. Optimization
 - -- Once you have a solution set / feasible region, be able to find ONE solution that maximizes / minimizes a goal
 - -- Goal determined by an OBJECTIVE function

-- Notice what happens to your goal as you choose different TEST points that move UP, DOWN, LEFT, and RIGHT