Abhi has two part time jobs: McDonalds and Lawn care

-- He would not feel comfortable working any more than 25 hours per week between both jobs

x is the number of hours Abhi works at McDs
y is the number of hours Abhi works at lawn

This is a restriction – it can be represented by an INEQUALITY

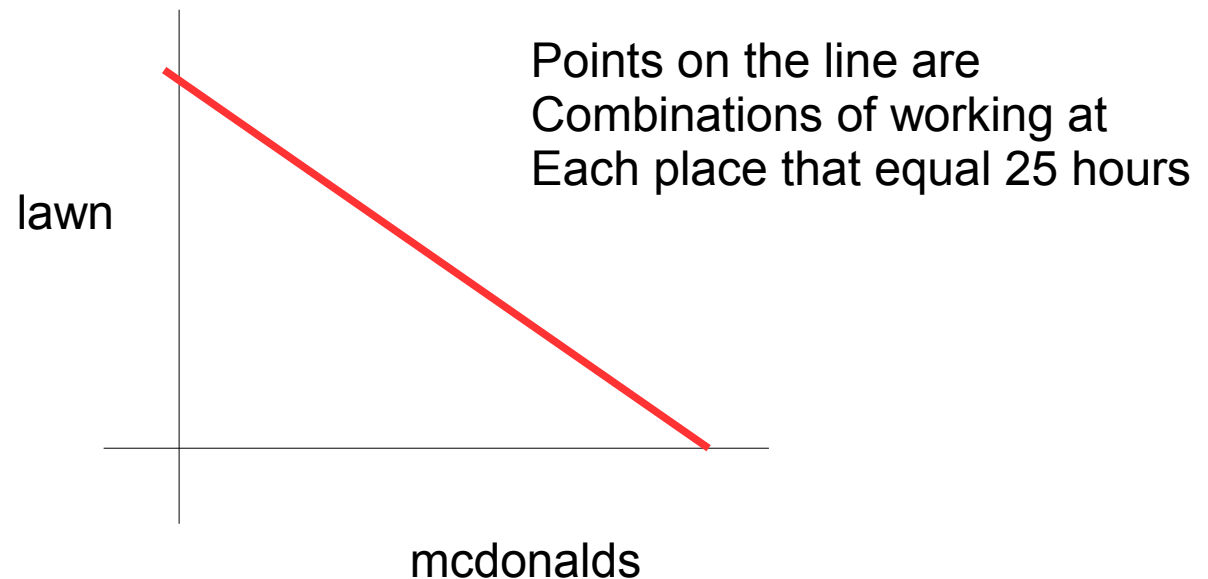$x + y <= 25$

Abhi has two part time jobs: McDonalds and
Lawn care

In order to graph this INEQUALITY, we need
To isolate the y

On the calculator, we enter [Y=]

x + y <= 25
y <= 25 - x

lawn

mcdonalds

Points on the line are
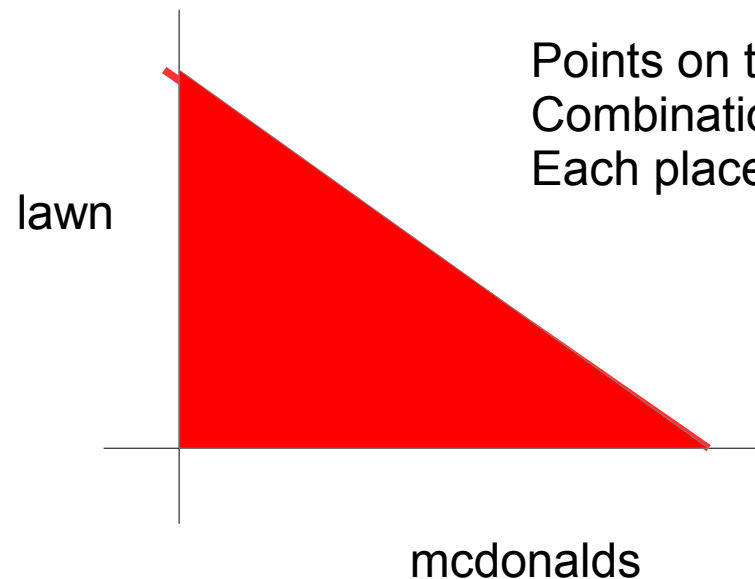Combinations of working at
Each place that equal 25 hours

Abhi has two part time jobs: McDonalds and Lawn care

Abhi is actually OK with working less than 25 hours (just not more)

On the calculator, we change \ to enter

x + y <= 25
y <= 25 - x

lawn

mcdonalds

Points on the line are
Combinations of working at
Each place that equal 25 hours

Abhi has two part time jobs: McDonalds and Lawn care

We're going to add another restriction: Abhi prefers to work at McDonalds so he wants to always work MORE hours at McDs than at the lawn care

The darkest region (where both are Shaded are our successes) where Every restriction is met

x > y

y < x to graph

lawn

mcdonalds
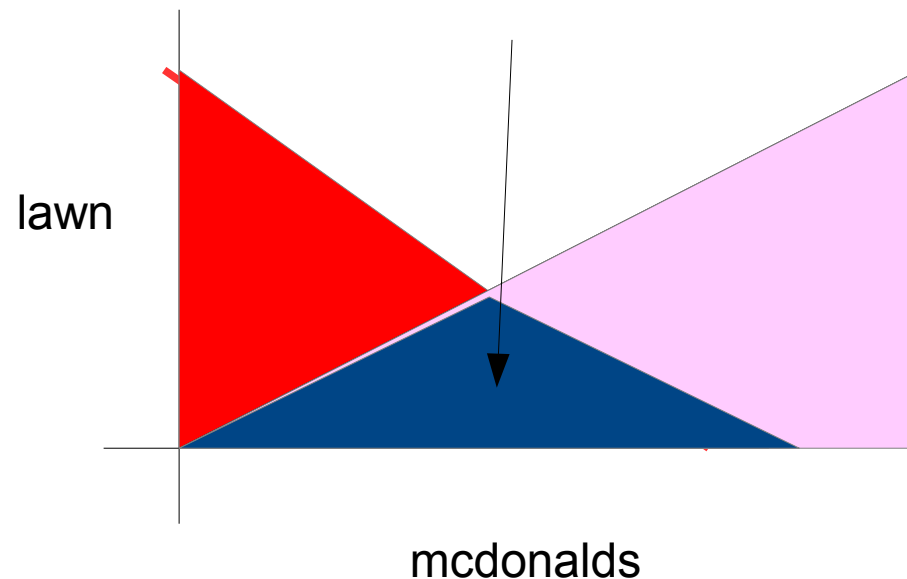
Writing: Design a situation that includes

-- Description of a decision you have to make
Between two competing demands

-- Assign variables x and y to each of the
Demands

-- Write a description of two different
Restrictions to your scenario (create the
Inequalities for each restriction)

-- Sketch a graph and indicate the region
that you want