Mr. Nguyen is boycotting 7-11 and will buy his candy at Bulk Barn.

Coke bottles cost \$1.50 per 100g Gummi worms cost \$1.00 per 100g

Mr. Nguyen has \$10 to spend

-- Give one scenario of the candies that Mr. Nguyen can buy without going over budget 3 x 100g of coke bottles --> 3 x 1.50 = 4.50

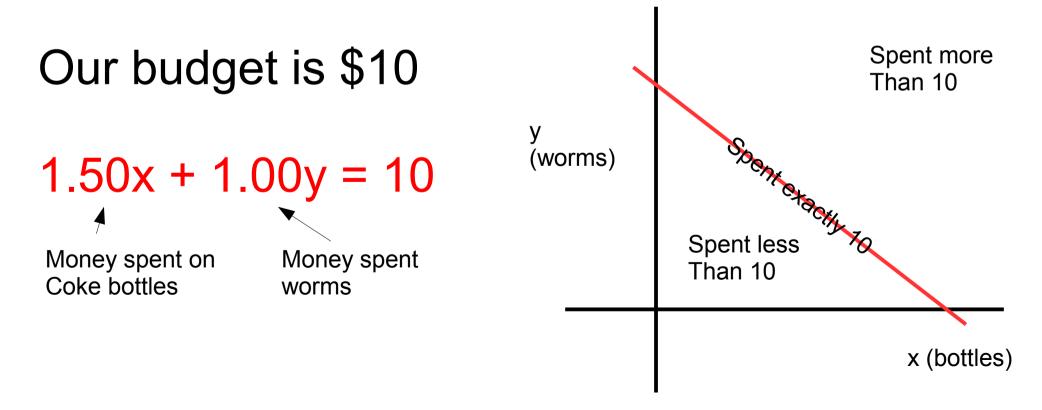
2 x 100g of gummi worms --> 2 x 1.00 = 2.00

Total: \$6.50. YES. It's under budget

Systems of Linear Inequalities

Consider the previous example:

Let x be the number of grams of coke bottles Let y be the number of grams of gummi worms

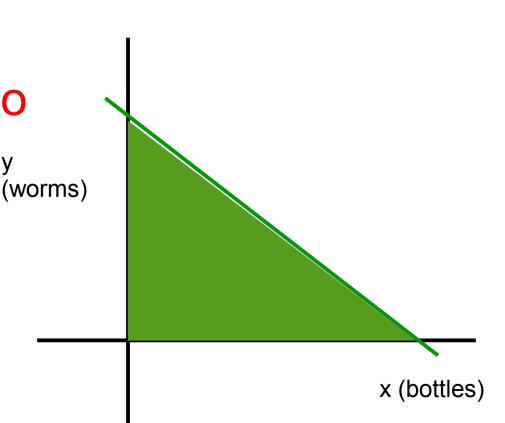


Systems of Linear Inequalities

On the TI-83, we graph y = 10 - 1.5x which represents

Will change the graph to show a region

Anything in that region is acceptable

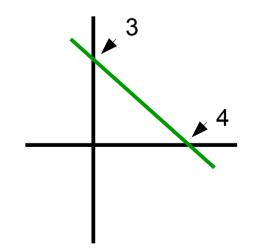


Let's revisit what an inequality means...

X is a number... infinite possibilities

X = 5 ... we narrow it down to 1 possibility

X < 5 ... back to infinite possibilities



$$y = (-3/4) x + 3$$

There are infinite solutions to this line... any point on the line is a solution