## Solving Word Problems Using Inequalities

p will involve < , < , >, OR >

## Example 1

You are planting trees as a summer job. You are paid \$0.10 per tree planted. You want to earn at least \$20/h. How many trees must you plant per hour in order to achieve your goal?

- 1) Define a variable. Let t = # of trees planted per hour "ot least"
- (a) write an inequality so.10 p ≥ \$20 using the variable.
- 3 Solve it using skills \$0.10p > \$20.10

## Example 2

You would need to plant 200 trees (or more) to earn

Your friend mows lawns and cleans pools during the summer. He earns \$20 per lawn and \$9 per pool. He needs \$1500 to buy a new computer. If he plans to mow 41 lawns this summer, how many pools must be clean to earn at least \$1500?

Outcomes:

PR4 - Single variable linear inequalities

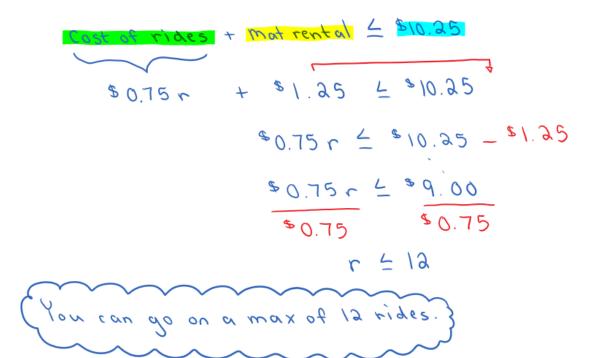
Also, doesn't make sense to say you clean 75.6 pools so you can't give a decimal as the final solution.

Grade 9 Math Linear Inequalities

## Example 3

A super-slide charges \$1.25 to rent a mat and \$0.75 per ride. You have a max of \$10.25 to spend. How many rides can you go on?

Let r = # of rides you can go on





Complete the following: Practice - Word Problems involving Inequalities