## **Practice - Word Problems Involving Inequalities**

## Outcome PR-4 Single variable linear inequalities

Sell 215 subscriptions.

Class needs to

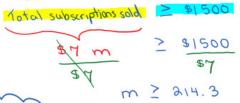
Minimum amount!

The ninth grade class at Pi High is having a fundraiser. They need to raise at least \$1,500.

They are selling magazines for \$7 each. How many subscriptions does that class need to sell to meet their fundraising goal?

magazines

Let m = # magazine subscriptions



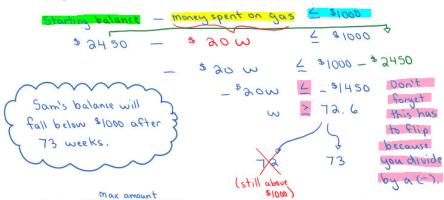
You can't sell part of a magazine so we either round up OR down

Suzy wants to go on her class trip to New York City. If Suzy earns \$8 per hour babysitting, how many hours does she need to babysit in order to raise at least the \$500 needed for the trip?

If you round down to 214 magazines, the class will not raise the required \$1500 (they'd be \$2 short).

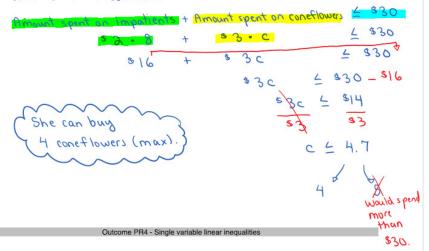
So, we would need to round up to 215 magazines.

3) Sam has \$2,450 in his bank account. He spends \$20 each week on gas money. After how many weeks will Sam's account balance fall below \$1,000?



4) Sarah has at most \$30 to spend at the greenhouse on flowers for her summer garden. [mpatients cost \$2 each and coneflowers are \$3 each. If Sarah buys 8 impatients, how many coneflowers can she afford?

Let c = # of coneflowers



5) Jim and Joyce are saving for their annual vacation. They are going to Hawaii and their plane tickets costs \$2418 total. They have saved \$1804 so far. If they are able to save \$55 per week, how many weeks of saving will it take before they have saved at least \$2418?

