

Name: _____

Date: _____

Inequality Word Problems

- 1) Colin has saved \$75 so far this year. He plans on saving his \$12 a week allowance. He would like to buy a pair of skis for \$920.
 - a) Write an inequality to represent when Colin will be able to buy the skis. State what your variable stands for.

 - b) When will Colin be able to buy his skis?

- 2) Sarah has read 12 pages of her book. She can read 18 pages an hour. Her assignment states that she needs to read at least 196 pages before Friday.
 - a) Write an inequality to represent the number of pages read. State what your variable stands for.

 - b) When will Sarah have completed her assignment?

- 3) A family plan states that you can only use 225 minutes. The Smith family has already used 83 minutes. There are 4 family members.
 - a) Write an inequality to represent the number of minutes each family member can use. State what your variable stands for.

 - b) How many minutes can each family member use without going over their minutes.

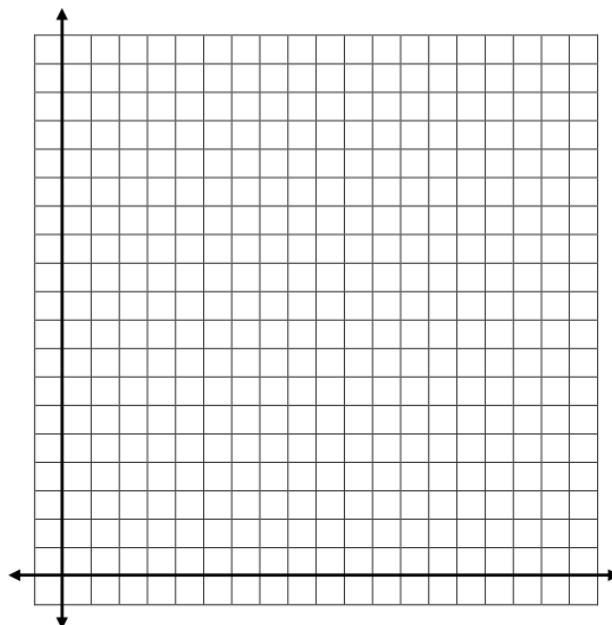
- 4) Danielle is on a diet. She is only allowed to have 1525 calories a day. She has already consumed 1485 calories and plans on having M&M's for dessert. Each M&M is 3.5 calories.
 - a) Write an inequality to represent the number of M&M's Danielle can eat without going over her daily calorie allowance. State what your variable stands for.

 - b) How many M&M's can Danielle eat for dessert?

Inequalities in Two Variables
Word Problems

5) Suzie is buying candy for her piñata. She has \$36 dollars to spend. Each package of gumballs costs \$3.25. Each package of Skittles costs \$4.50.

a) Write an inequality to represent the how many bags of each candy she can buy. State what your variables stand for.

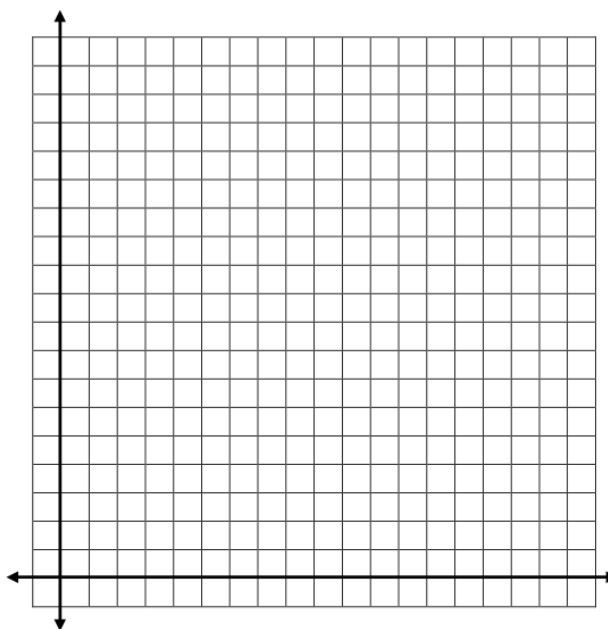


b) Graph the situation.

c) Give three possible combinations Suzie can buy for her piñata.

6) Billy can only consume 400 calories at lunch. He wants to have nuggets and fries. Each nugget is 47 calories and each French fry is 8 calories.

a) Write an inequality to represent the number of nuggets and fries Billy can consume without going over his calorie allowance. State what your variables stand for.

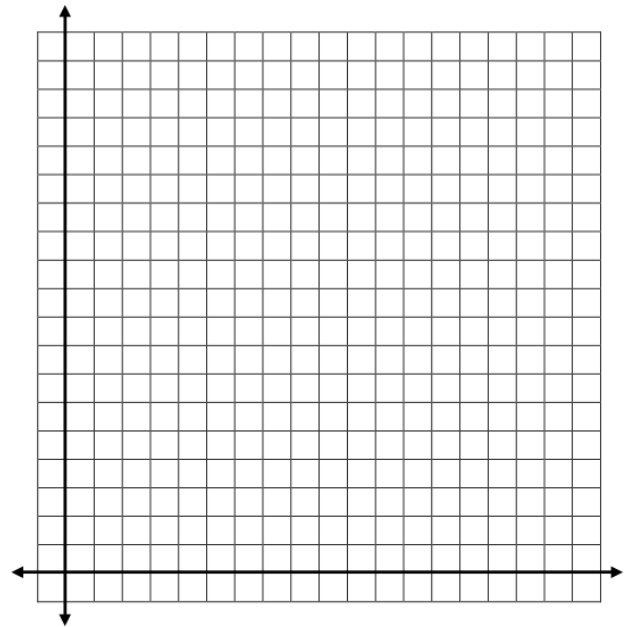


b) Graph the situation.

c) Give three possibly combinations of nuggets and fries that Billy can eat.

7) The school is doing a fundraiser. They are selling t-shirts for \$8 and shorts for \$12. They would like to make more than \$400. It cost them \$86 to have the clothing made.

a) Write an inequality to represent the number of shirts and shorts they need to sell to reach their goal. State what your variables stand for.

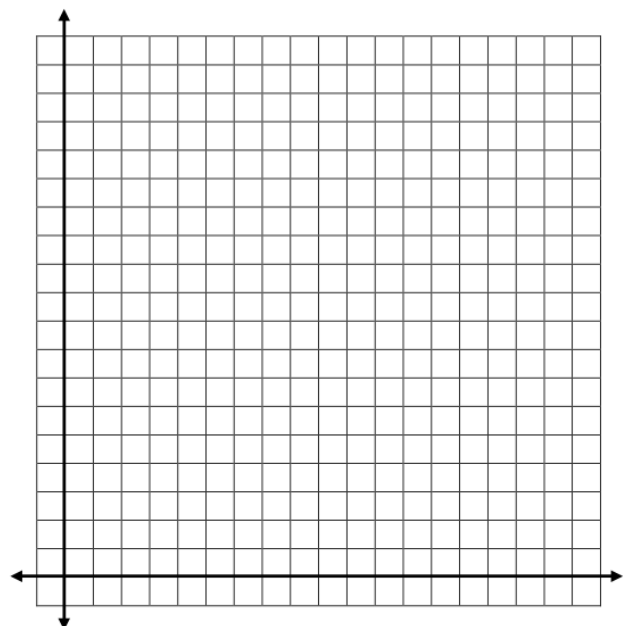


b) Graph the situation.

c) Give three possible combinations of t-shirts and shorts they can sell in order to reach their goal.

8) Frankie has two jobs this summer. He makes \$12 an hour mowing lawns and \$10 an hour babysitting. He needs to make more than \$1360.

a) Write an inequality to represent the hours spent mowing lawns and babysitting to reach his goal.



b) Graph the situation.

c) Give three possible combinations for Frankie to reach his goal.