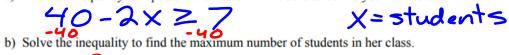
## Warm-up 10/11

- Elisa won 40 lollipops playing basketball at the school fair. She gave two to every student in her math class. She has at least 7 lollipops left.
  - a) Write an inequality to represent the situation. Be sure to define your variable.
  - b) Solve the inequality to find the maximum number of students in her class.
- 2) More than 450 students went on a field trip. Ten buses were filled and 5 more students traveled in a car.
  - a) Write an inequality to represent the situation. Be sure to define your variable.
  - b) Solve the inequality to find the minimum number of people on each bus.

## Warm-up 10/11

- 1) Elisa won 40 lollipops playing basketball at the school fair. She gave two to every student in her math class. She has at least 7 lollipops left.
  - a) Write an inequality to represent the situation. Be sure to define your variable.



 $\frac{-2x^2-33}{-2}$  16 student max in her

- 2) More than 450 students went on a field trip. Ten buses were filled and 5 more students traveled in a car.
  - a) Write an inequality to represent the situation. Be sure to define your variable.

10x + 5 = 450 x = 5tudents on the bus b) Solve the inequality to find the minimum number of people on each bus.

## Answers to Inequalities Word Problem Worksheet

- 1) No more than 12 weeks
- 2) No more than 12.7 miles
- 3) No more than 5 DVDs

- 4) At least 12 more sessions
- 5) At least 950 bags of dog food.
- 6) More than 12.5 weeks.
- 7) At least 15 times

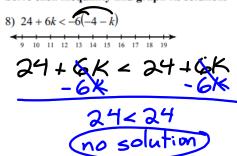
- 9) n > -5:  $\begin{array}{c} -6 & -4 & -2 & 0 & 2 \\ \hline 11) \text{ No solution.} \end{array}$

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Inequalities Word Problem Worksheet	Date	Period
Establish a variable, write an inequality to represent the scenence to describe your solution.	enerio, and solve. Write a c	complete
1) Keith has \$500 in a savings account at the beginning of the end of the summer. He withdraws \$25 per week for food, cl can Keith withdraw money from his account?		
2) A taxi charges a flat rate of \$1.75, plus an additional \$0.63 the cab ride, how far could she travel?  (0 \geq 0.65 \times +	-	$X \subseteq I_{\infty}$
3) Chris wants to order DVD's over the internet. Each DVD of \$9.99. If he can spend no more than \$100, how many DVI		e entire order costs
4) Allison practices her violin for at least 12 hours per week. session. If Allison has already practiced 3 hours this week, or exceed her weekly practice goal?		
5) Pet Supplies makes a profit of \$5.50 per bag on its line of profit of no less than \$5225, how many bags of dog food dog.		e wants to make a

6) Ryan is a wrestler trying to make weight. He currently weighs 200 lbs. If he cuts 2 lbs. per week, how many weeks will it take him to weigh less than 175 lbs.?

7) Tom is deciding whether or not he should become a member gym to use their basketball courts. The membership cost is \$135. Members pay \$2 to rent out the basketball courts. Non-members can rent the court also, but they have to pay \$11 each time. how many times would Tom need to rent the court in order for it be cheaper to be a member than a non member?

Solve each inequality and graph its solution.



9) 
$$-2n - 40 < 5(6 + n) + 7n$$

10) 
$$-4(4+7x) + x \ge -6x + 5$$

$$(-28) + 12 + 18 + 7x$$

$$(-28) + 10 + 18 + 7x$$

$$(-10) + 10 + 18 + 7x$$

$$(-10) + 10 + 10 + 10$$

