Algebra 1 Block © 2 0 1 5 Kuta Software LLC. All rights reserved.			
In	nequalities Word Problem Worksheet	Date	Period
Establish a variable, write an inequality to represent the scenerio, and solve. Write a complete sentence to describe your solution.			
1)	Keith has \$500 in a savings account at the beginning of the s end of the summer. He withdraws \$25 per week for food, clo can Keith withdraw money from his account?		
2)	A taxi charges a flat rate of \$1.75, plus an additional \$0.65 per the cab ride, how far could she travel?	er mile. If Erica has at most	\$10 to spend on
3)	Chris wants to order DVD's over the internet. Each DVD cos \$9.99. If he can spend no more than \$100, how many DVD's		entire order costs
4)	Allison practices her violin for at least 12 hours per week. Sh session. If Allison has already practiced 3 hours this week, he or exceed her weekly practice goal?	-	

5) Pet Supplies makes a profit of \$5.50 per bag on its line of natural dog food. If the store wants to make a profit of no less than \$5225, how many bags of dog food does it need to sell?

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.

8) 
$$24 + 6k < -6(-4 - k)$$

9 10 11 12 13 14 15 16 17 18 19

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

11) 
$$-7(4-x)+4 \ge -18+7x$$

## 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:

11) No solution.: