

Inequalities Word Problem Worksheet

Establish a variable, write an inequality to represent the scenerio, and solve. Write a complete sentence to describe your solution.

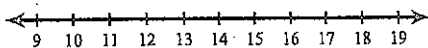
- 1) Keith has \$500 in a savings account at the beginning of the summer. He wants to have at least \$200 at the end of the summer. He withdraws \$25 per week for food, clothing, and movie tickets. How many weeks can Keith withdraw money from his account?
- 2) A taxi charges a flat rate of \$1.75, plus an additional \$0.65 per mile. If Erica has at most \$10 to spend on the cab ride, how far could she travel?
- 3) Chris wants to order DVD's over the internet. Each DVD costs \$15.99 and shipping the entire order costs \$9.99. If he can spend no more than \$100, how many DVD's could he buy?
- 4) Allison practices her violin for at least 12 hours per week. She practices for three fourths of an hour each session. If Allison has already practiced 3 hours this week, how many more sessions remain for her to meet 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.?

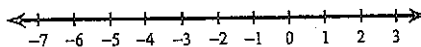
7) Tom is deciding whether or not he should become a member gym to use their basketball courts. The membership cost is \$135. Members pay \$2 to rent out the basketball courts. Non-members can rent the court also, but they have to pay \$11 each time. how many times would Tom need to rent the court in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

Solve each inequality and graph its solution.

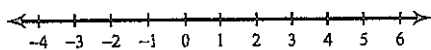
8) $24 + 6k < -6(-4 - k)$



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



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



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

