

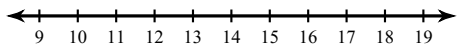


6) Ryan is a wrestler trying to make weight. He currently weighs 200 lbs. If he cuts 2 lbs. per week, how many weeks will it take him to weigh less than 175 lbs.?

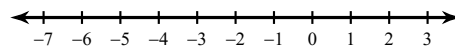
7) Tom is deciding whether or not he should become a member gym to use their basketball courts. The membership cost is \$135. Members pay \$2 to rent out the basketball courts. Non-members can rent the court also, but they have to pay \$11 each time. how many times would Tom need to rent the court in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

**Solve each inequality and graph its solution.**

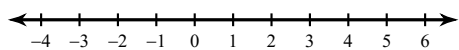
8)  $24 + 6k < -6(-4 - k)$



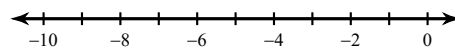
9)  $-2n - 40 < 5(6 + n) + 7n$



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



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



## Answers to Inequalities Word Problem Worksheet

1) No more than 12 weeks

2) No more than 12.7 miles

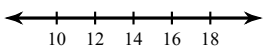
3) No more than 5 DVDs

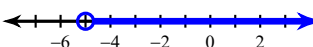
4) At least 12 more sessions

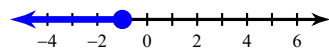
5) At least 950 bags of dog food.

6) More than 12.5 weeks.

7) At least 15 times

8) No solution. : 

9)  $n > -5$  : 

10)  $x \leq -1$  : 

11) No solution. : 