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## Multi Step Inequalities Worksheets

Solve each inequality in questions 1-5

1)  $50 < 8 - 6x$

2)  $-x/5 + 6 > -3$

3)  $30 \geq -30 - 6x$

4)  $15 - 5k > 0$

5)  $-2x - 14 \leq 86$

6) Find two consecutive integers such that 7 times the smaller is less than 6 times the greater. What are the greatest such integers?

7) There are three exams given in a marking period. Ryan received an 85 and a 91 on the first two exams. What grade must he earn on the last exam in order to get an average of no less than a 90 for the marking period?

8) 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?

- 9) The length of a rectangle is 4cm more than three times its width. If the perimeter is more than 56 cm, what are the minimum possible dimensions of the rectangle (not allowing for fractional side measures)?



- 10) 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?

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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$x < -7$
2)	$x < 45$
3)	$x \geq -10$
4)	$k < 3$
5)	$x \geq -50$
6)	5,6
7)	At least 94
8)	At least 15 times
9)	$W=7$ $L=25$
10)	At least 12 more sessions

## FUN FACT

- We must add or subtract the same quantity on both sides of an inequality.
- We must multiply or divide the same quantity on both sides of an inequality.
- When we plot an inequality on a number line, we use a line.

