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Multi Step Inequalities Worksheets

Solve each inequality in questions 1-5

1) $2x + 5 > 13$

2) $x/2 + 4 < 7$

3) $4x - 12 \geq 8$

4) $(x - 6)/4 \leq 2$

5) $9x - 7 \leq 38$

6) The quotient of a number and 5 is no greater than 450.
What are the possible values for the number?

7) The Yellow Taxi Cab Co. charges a \$2.75 flat rate and \$.65 for each additional mile. Emma has no more than \$14 to spend on a ride. How many miles can Emma ride without exceeding her spending limit?



8) 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?

- 9) You want to rent a limousine for a trip to the city. The limo costs \$700 for the night and \$0.15 per mile. You have \$750 to spend. Write an inequality that represents this scenario. How many miles can the limo travel?
- 10) The length of a rectangle is 4cm longer than the width. The perimeter is no more than 28cm. What are the maximum possible dimensions for the rectangle?



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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) | $x > 4$ |
| 2) | $x < 6$ |
| 3) | $x \geq 5$ |
| 4) | $x \leq 14$ |
| 5) | $x \leq 5$ |
| 6) | $x \leq 2250$ |
| 7) | 17 miles |
| 8) | No more than 12 weeks |
| 9) | $m \leq 333.33$ miles |
| 10) | $L = 9$ $W = 5$ |

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.

