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## Systems of Inequalities worksheets

Solve each inequality in questions 1-5

1.  $50 < 8 - 6x$  and  $-x > 6$
2.  $-x/5 + 6 > -3$  and  $x < -4$
3.  $30 \geq -30 - 6x$  and  $x \geq 5$
4.  $15 - 5k > 0$  and  $k < 2$
5.  $-2y - 14 \leq 86$  and  $y < -22$

Solve and graph the solution of the inequalities in questions 6-7

6.  $(x-4)/5 \geq 2$  and  $x < 16$
7.  $2x + 5 \geq 19$  and  $x < 22$
8. The number of non-negative integers which are not in the solution set of  $x^2 < 5x - 23 - 7x - 35$  is \_\_\_\_
9. The cost of a pen is \$2.5. What is the maximum number of pens you can buy if you have 22 dollars?
10. Two-thirds of a number plus 5 is greater than 12. Find the smallest possible whole number.

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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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