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## Solving Two Step Inequalities Worksheets

Solve each inequality in questions 1-5

1)  $50 < 8 - 6x$

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

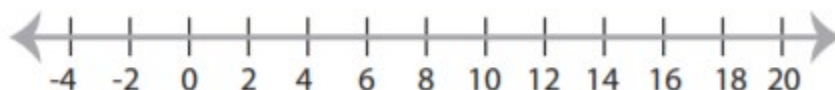
3)  $30 \geq -30 - 6x$

4)  $15 - 5k > 0$

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

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

6)  $x/2 + 3 > 9$



7)  $9 + 3x > 12$



8) The number of non-negative integers in the solution set of  $\frac{2x-1}{3} \geq \frac{3x-2}{4} - \frac{2-x}{5}$  is \_\_\_\_

9) The cost of a barrel of oil is \$63. What is the maximum number of barrels of oil you can buy if you have \$200?



10) The sum of twice a number and 5 is at most 15. What are the possible values for the number?

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

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"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."

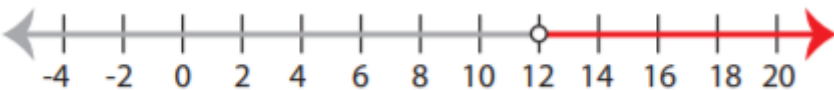

- Barbara Cabrera

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# ANSWERS



1)	$x < -7$
2)	$x < 45$
3)	$x \geq -10$
4)	$k < 3$
5)	$x \geq -50$
6)	$x > 12$ 
7)	$x > 1$ 
8)	3
9)	3
10)	$x \leq 5$

## FUN FACT

- Inequality is a relation between two expressions that are not equal to each other.
- An equation is a linear equation when the maximum value of the exponent of the variable is 1.
- We solve any equation and inequality to find the value of the variable.

