Unit – Inequalities Graphing Inequalities on a Number Line

By the end of this lesson you will be able to _____

What is the difference between solutions to equations and solutions to inequalities?

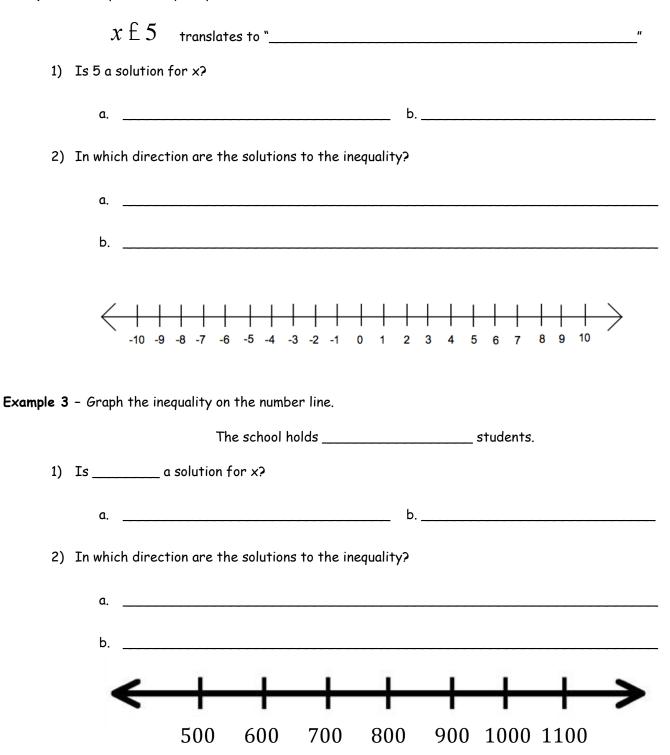
Solutions to Equations x + 2 = 5						
How many solutions do equations have?						

Solutions to Inequalities						
The average number of kids in a household 1900 was at least 3.						
How many solutions do inequalities have?						

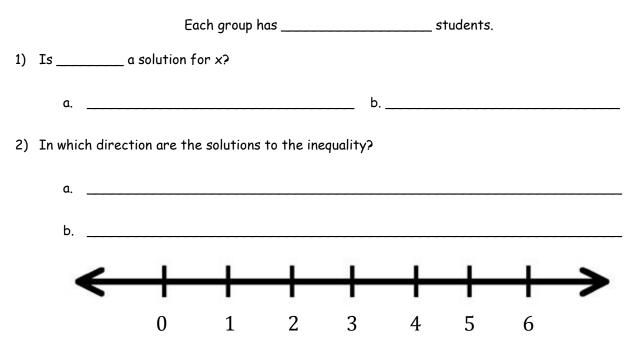
Example 1 - Graph the inequality on the number line.

<i>x</i> > 6	translates to "				
1) Is 6 a solution	for x?				
a			b		
2) In which direct	tion are the solutio	ns to the inequ	ality?		
a					
b.					
5					
\leftarrow	-8 -7 -6 -5 -4		1 2 3 4 5	6 7 8 9 10	

Example 2 - Graph the inequality on the number line.



Example 4 - Graph the inequality on the number line.



Your Turn to Practice

Write out each inequality in words. Then draw the inequality on the number line.

