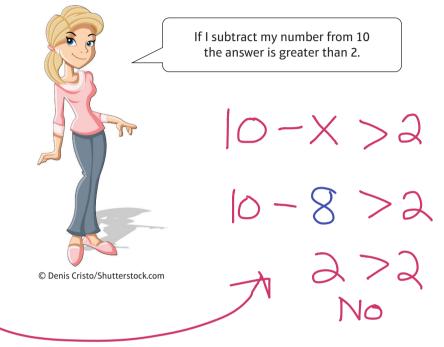
_____ PERIOD: _____ DATE: ____

Homework Problem Set

1. Shamara is thinking of a number.

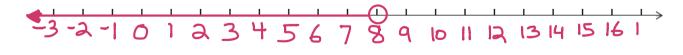


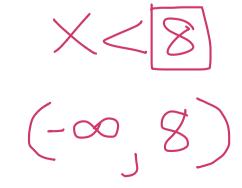
A. Could Shamara be thinking of 8? Explain.

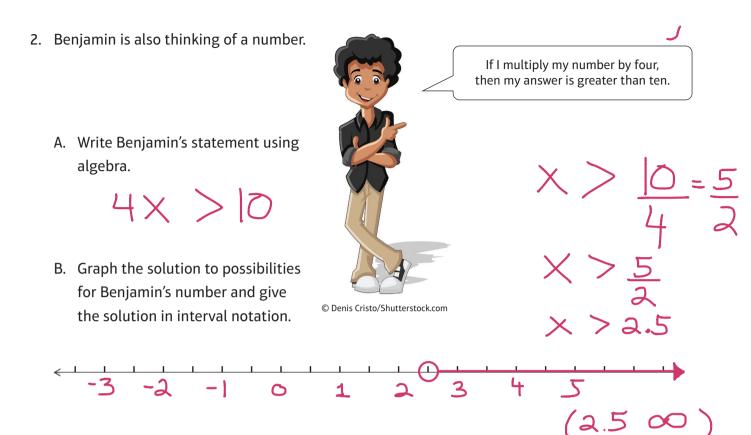
B. How is Sharmara's statement written using algebra?



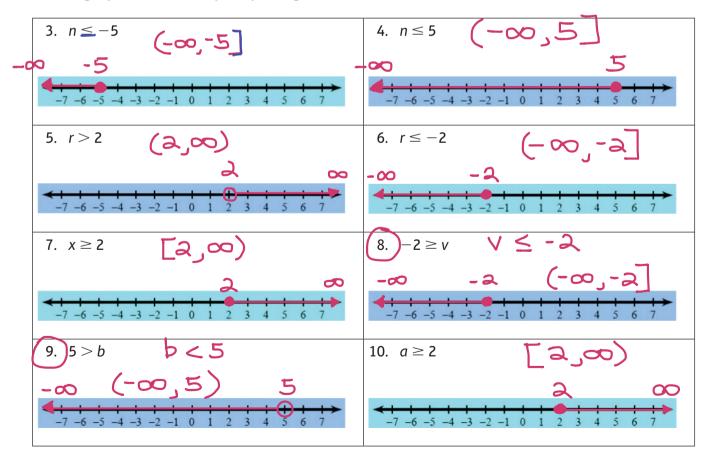
C. Graph the solution to possibilities for Sharmara's number and give the solution in interval notation.



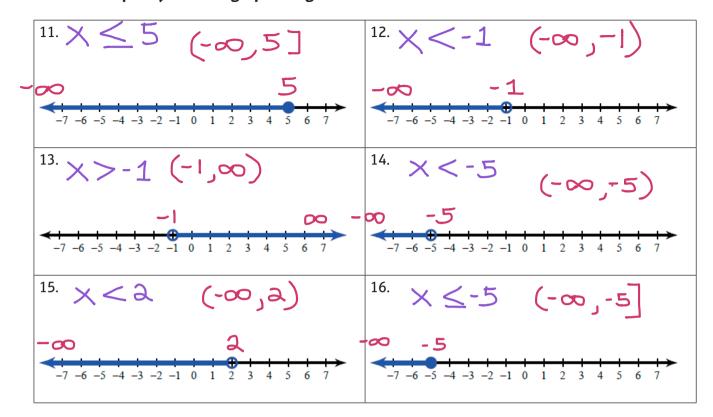




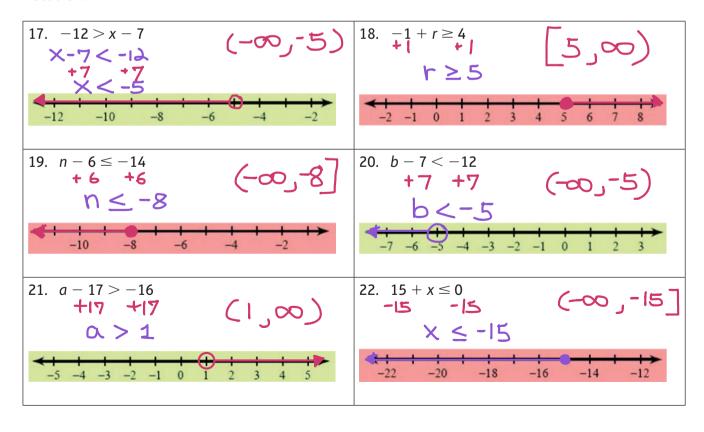
Draw a graph for each inequality and give the solution in interval notation.

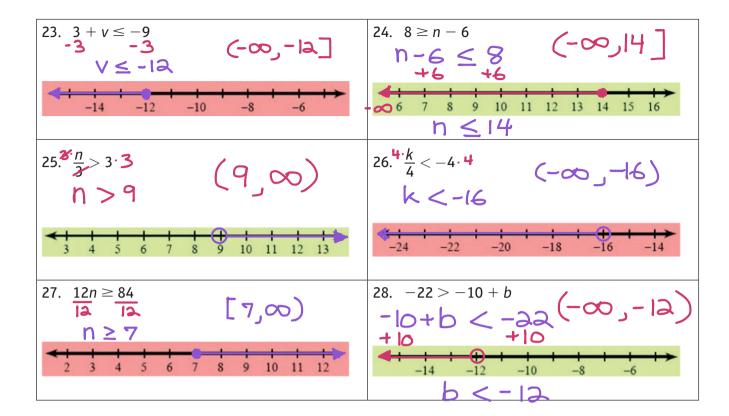


Write an inequality for each graph and give the solution in interval notation.



Use *mental math* to solve and graph each inequality. Then give the solution in interval notation.





Complete the table below for Problems 29–33. Think about the work you did when solving equations to write the simplified inequality statement.

	Inequality Statement	Simplified Inequality Statement	Interval Notation of Solution	Graph of Solution				
29.	10 - x > 10			-10	-5	0	5	10
30.	x - 10 > x			<u>-10</u>	-5	Ō	5	10
31.	2 <i>x</i> > 10			<u>-10</u>	-5	0	5	10
32.	$\frac{x}{5} < 2$			-10	-5	0	5	10
33.	$\frac{x}{2} > 5$			-10	-5	0	5	10