

SWEET INEQUALITIES: SHOW YOUR WORK

Write an inequality for each scenario (verbal problem). Then solve each inequality.

Verbal Problem	Your Work
1) Mariana donated 2 baked goods for the fundraiser, but that still means there are not more than 12 baked goods to sell.	
2) After Nevaeh ate 2 cookies, there were more than 8 cookies remaining.	
3) If Marcos makes 2 more pies, he will have at least 12 pies for the birthday party.	
4) Jeremiah burned 2 batches of cupcakes, but he still has less than 8 batches of cupcakes.	
5) Two inches more than the height of Tyron's cake is at least $7\frac{1}{3}$ inches.	
6) Two more cups of Amir's cookie dough will give him no more than $7\frac{1}{3}$ cups of cookie dough.	
7) If Mika lets her dough rest for an extra $2\frac{1}{3}$ hours, then it will have rested for more than $7\frac{2}{3}$ hours in total.	
8) If Amelia reduces the amount of vanilla in the recipe by $2\frac{1}{3}$ teaspoons, then she will have less than 3 teaspoons of vanilla to her mix.	

SWEET INEQUALITIES: YOUR RESULTS

Find the signs that match each given scenario. Write the letters in the corresponding columns.

Verbal Problem	Algebraic Problem	Algebraic Solution	Visual Solution
1) Mariana donated 2 baked goods for the fundraiser, but that still means there are not more than 12 baked goods to sell.			
2) After Nevaeh ate 2 cookies, there were more than 8 cookies remaining.			
3) If Marcos makes 2 more pies, he will have at least 12 pies for the birthday party.			
4) Jeremiah burned 2 batches of cupcakes, but he still has less than 8 batches of cupcakes.			
5) Two inches more than the height of Tyron's cake is at least $7\frac{1}{3}$ inches.			
6) Two more cups of Amir's cookie dough will give him no more than $7\frac{1}{3}$ cups of cookie dough.			
7) If Mika lets her dough rest for an extra $2\frac{1}{3}$ hours, then it will have rested for more than $7\frac{2}{3}$ hours in total.			
8) If Amelia reduces the amount of vanilla in the recipe by $2\frac{1}{3}$ teaspoons, then she will have less than 3 teaspoons of vanilla to her mix.			