SWEET INEQUALITIES (TEACHER GUIDE)

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.	$x + 2 \leq 12$ $\underline{-2 \quad -2}$ $x \leq 10$
2)	After Nevaeh ate 2 cookies, there were more than 8 cookies remaining.	$x - 2 > 8$ $\underline{+2 \quad +2}$ $x > 10$
3)	If Marcos makes 2 more pies, he will have at least 12 pies for the birthday party.	$x + 2 \geq 12$ $\underline{-2 \quad -2}$ $x \geq 10$
4)	Jeremiah burned 2 batches of cupcakes, but he still has less than 8 batches of cupcakes.	$x - 2 < 8$ $\underline{+2 \quad +2}$ $x < 10$
5)	Two inches more than the height of Tyron's cake is at least $7\frac{1}{3}$ inches.	$x + 2 \geq 7\frac{1}{3}$ $\qquad x \geq 5\frac{1}{3}$ $\underline{-2 \quad -2}$
6)	Two more cups of Amir's cookie dough will give him no more than $7\frac{1}{3}$ cups of cookie dough.	$x + 2 \leq 7\frac{1}{3}$ $\qquad x \leq 5\frac{1}{3}$ $\underline{-2 \quad -2}$
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.	$x + 2\frac{1}{3} > 7\frac{2}{3}$ $\qquad x > 5\frac{1}{3}$ $\underline{-2\frac{1}{3} \quad -2\frac{1}{3}}$
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.	$x - 2\frac{1}{3} < 3$ $\qquad x < 5\frac{1}{3}$ $\underline{+2\frac{1}{3} \quad +2\frac{1}{3}}$

SWEET INEQUALITIES (KEY)

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.	D	K	V
2)	After Nevaeh ate 2 cookies, there were more than 8 cookies remaining.	B	I	R
3)	If Marcos makes 2 more pies, he will have at least 12 pies for the birthday party.	E	N	W
4)	Jeremiah burned 2 batches of cupcakes, but he still has less than 8 batches of cupcakes.	G	L	S
5)	Two inches more than the height of Tyron's cake is at least $7\frac{1}{3}$ inches.	A	M	Z
6)	Two more cups of Amir's cookie dough will give him no more than $7\frac{1}{3}$ cups of cookie dough.	F	J	T
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.	C	Q	Y
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.	H	P	U