Name: Da	nte:	Unit 3 Class Work		
Solving One-Step Inc	equalities Class Work			
You will be able to solve, graph, and check your solutions to one-step inequalities model and resolve problems using one-step inequalities				
★ The rules for solving inequalities are just like so	olving equations, with the exception	on of one		
additional rule When multiplying/dividing by a r	negative number you must			
	_·			
★ Let's write and solve an inequality to figure out each situation in order to make sense of this  When checking your solutions to these problems, make sure that the left and right sides of the symbol are EXACTLY the same. ©				
Assume you earn \$11 per hour babysitting. You want to make at least \$199 this week. How many hours will you have to babysit for?	Marissa would like her average test s 83. If she is going to take three tests many total points should she earn fro (Remember, average = total points /	in total, how om these tests?		
Kyle and Ayla are saving money for a vacation, and they need to save at least \$1500. If Kyle agrees to put exactly \$900 of his savings towards the vacation, how much money does Ayla have to save?	Assume you have a budget of \$200 tholiday gifts. If you already spent \$8 family, how much money can you sti	5 on gifts for your		

## **80** Mixed Practice Solving One-Step Inequalities

Solve each inequality. Then graph your solution on a number line. State at least two possibilities for the value of the variable.

1. 
$$x \div -3 > 10$$

3. 
$$\frac{1}{2} + p \le 3\frac{3}{4}$$

4. 
$$h - 8.4 > 10$$

5. 
$$b/9 \ge -2$$

6. 
$$r - 2 \le -8$$

7. 
$$-4w > -100$$

8. 
$$k + 10.5 \le 18.75$$

9. 
$$s/-2 < -4$$

10. 
$$14 > 20.3 + x$$

Name:	Date:	Unit 3 Class Work
Resolve each issue using an inequ	uality to support your answer. Then sto final solution.	ate at least two possibilities for the
- Define a variable.		
	ite the relationship.	
	•	n inequality.
		- Solve & check.
	of collecting at least 120 jackets to kets, how many more do they nee	
	n is selling calendars to raise money . If each calendar costs \$15.50, ho	

13. On freerice.com, your goal is to donate a minimum of 1000 grains of rice per week. If you donated 240 grains on Monday and 380 grains on Tuesday, how much must you donate throughout the rest of the week?
14. A taxicab charges \$1.20 for every mile traveled. If you only have \$20.00 on you, how far can you travel? (Assume you do not have to leave a tip, since the fee is so high!)
*Of problems 11, 12, 13, and 14, which would a number line representation for the solution not be applicable for? Why not?
*Anchor: Create any inequality problem that could be solved using one step! © Then solve, graph, and check!

Name:	Date:	<b>Unit 3 Class Work</b>

## **Compare & Contrast**

How is working with equations similar to working with inequalities?

How are the two processes different?