Name		Date	
<b>LESSON</b> 5.3 <b>Practice B</b> For use with the lesson "Solve Multi-Step Inequalities"			
Solve the inequality. Graph your solution.			
1.	$4x - 7 \ge 1$	<b>2.</b> $7p + 3 < -11$	
	<	< + + + + + + + + <b>&gt;</b>	
3.	$8 - 2n \ge 26$	<b>4.</b> $3(a-4) \le 33$	
	<b>←</b>	< + + + + + + + + + →	
5.	6(y+1) > 6	<b>6.</b> $-2(c-1) < -22$	
	< <u> </u>	< <u>+</u> + + + + + + + →	
7.	8m - 7 < 4m + 5	<b>8.</b> $10 - 11d > -5d - 4$	
	<del>&lt;                                      </del>	<del>&lt;                                      </del>	
9.	$9z \le -7z + 14$	<b>10.</b> $6w + 3 < 2w + 15$	
	<	< + + + + + + + + →	
Solve the inequality, if possible.			
11.	$6y - 9 \le 4y + 2y - 16$	<b>12.</b> $7p - 11p + 3 \ge 3 - 4p$	
13.	4(c-5) < 2(c-10)	<b>14.</b> $5(a-3) \le 5a-6$	
15.	6(x-8) > 6x - 48	<b>16.</b> $2(3d-4) < 4 + 6d - 15$	
17.	$4m + 14 - 2m \le 2(m + 7)$	<b>18.</b> $-2(n-3) \ge 1 - 2n + 5$	
	4(3 - 2x) > 2(6 - 4x)	<b>20.</b> $2(5-a) > 4a + 13 - 6a$	
	-4n + 11 < -4(n + 6)	<b>22.</b> $3(5-6x) \le 2(11-9x)$	
23.	$2m + 10 - 7m \le 5(4 - m)$	<b>24.</b> $6(1-2n) \le 5 - 12n$	

**LESSON 5.3** 

Name	Date	
<b>LESSON</b> <b>5.3 Practice B</b> continued For use with the lesson "Solve Multi-Step Inequalities"		
Translate the verbal phrase into an inequality. Then solve the inequality and graph your solution.		
<b>25.</b> Six more than 5 times a number $x$ is greater than or equal to 31.		
<b>26.</b> Twice the sum of 4 and x is less than $-16$ .		
← + + + + + + + →		
<b>27.</b> The difference of $10x$ and $3x$ is less than or equal to the sum of $4x$	4x and 21.	
<del>&lt;                                       </del>		
<b>28</b> . The sum of $2x$ and $4x$ is greater than or equal to the sum of $2x$ and	nd 36.	
$\overset{\bullet}{\leftarrow} + + + + + + + \overset{\bullet}{\rightarrow}$		
<b>29.</b> The difference of $2x$ and 15 is less than or equal to the sum of $4x$	x and 17.	
< + + + + + + + →		
<b>30.</b> Weaving A weaver spends \$420 on supplies to make wall hanging the wall hangings for \$80 each.		
<b>a.</b> Write an inequality that gives the possible numbers <i>w</i> of wall weaver needs to sell in order for the profit to be positive.		
<b>b.</b> What are the possible numbers of wall hangings the weaver r for the profit to be positive?	needs to sell in order	
<b>31.</b> School Spirit Your club is in charge of making pins that student their school spirit for the upcoming football game. You have mad and you only have 2 hours left to make the rest of the pins. You r 400 pins.	de 225 pins so far,	
<b>a.</b> Write an inequality that gives the possible numbers <i>p</i> of pins per minute in order to exceed your goal.	you have to make	
<b>b</b> What are the possible numbers of pins you have to make per	minute in order to	

- **b.** What are the possible numbers of pins you have to make per minute in order to exceed your goal?
- **32.** Aquarium You are getting a larger aquarium for your neon tetra fish and you also want to add more neon tetras to the larger aquarium. The general rule is that each fish needs 2 gallons of water. You currently have 6 neon tetras. If you buy a 20-gallon aquarium, what are the possible numbers of additional fish you can put in your aquarium? *Explain* how you got your answer.

**LESSON 5.3**