Name:	Period: Due Date:	Percent:
Unit 6	Assignment 6-7 Inequalities in Context	NO WORK = NO CREDIT WORK IN PENCIL ONLY!

DIRECTIONS for each situation below:

- a) Solve each story problem. Remember to show your work.
- b) Write the solution set (give an inequality and graph).
- c) Explain what your answer means in context of the situation.
- 1) Kimberly took her 6 nieces and nephews to a hockey game. She wants to buy them snacks. How much can each child spend on snacks if Kimberly wants to spend no more than \$30 total (don't worry about tax)?

Solution set:	 _	_	_	_	_	_	_	\rightarrow
								. /
Explain solution in context:	 							

2) The school is running a carnival to make money. Tickets sell for \$0.50 each, and they need to buy supplies for the carnival that cost \$50. How many tickets must they sell to raise at least \$200 in profit?

Solution set: _____

/

Score:

Explain solution in context:

3) Danny likes to play video games. His mom says that he can play no more than 7 hours a week. If he plays his favorite online game for 4 ½ hours during the weekend, how long can he play each day during the week?

Solution set:	/						
						- 7	7

Explain solution in context:

Solve the following equations and inequalities. You do NOT need to graph them this time!

4. $4(x+5) = 12$	5. $-2(x+4) < 8$
	W
6. $-4y - 17 \ge 13$	7. $\frac{w}{5} + 11 \le -3$
0 × 0 10	_ 1 1 _
8. $\frac{x}{-5} - 2 > -13$	9. $\frac{1}{2} > \frac{1}{4}x - 5$

- 10. You have a bag of 24 marbles: 3 red, 10 yellow, 6 blue, and 5 green. Find the probability if you were to pick out **one marble** from the bag. Find P(yellow or red)
- 11. You are rolling a six-sided die and flipping a coin, what is the probability that you will flip heads or roll an odd?