Student: Timothy Busken Date: 9/16/14 Time: 6:42 AM		Instructor: Timothy Busken Course: Math 55 Section 70253 12:50 pm Book: Bittinger: Elementary & Intermediate Algebra, Concepts and Applications, 6e	<b>Assignment:</b> Section 2.7: Solving Applications of Inequalities		
1.	Translate to an inequality.				
	The temperature is at least $-11$ °C.				
	The sentence written as an inequality is .  (Do not include the degree symbol in your answer. Type an inequality using t as the variable.)				
2.	Translate to an inequality using the variable x.				
	The price of a car exceeded \$47,957.				
	The inequality is (Type an inequality. I	Oo not include the \$ symbol in your	answer.)		
3.	Translate to an inequa				
	The average speed, s, was between 90 and 120 mph.				
	Translation: 90 mph	s 120 mph			
4.	Miranda's financial aid stipulates that her tuition not exceed \$1500. If her college charges a \$55 registration fee for the term plus \$350 per course, what is the greatest number of courses for which Miranda can register?				
	Miranda can register f	for at most courses.			
	(Your answer should	be a whole number.)			
5.	You are taking a math course in which there will be four tests, each worth 100 points. You have scores of 89, 95, and 99 on the first three tests. You must make a total of 360 in order to get an A. What scores on the last test will give you an A?				
	The solution is $\{s \mid s \ge 1\}$ (Simplify your answer	r. Type an integer or a decimal.)			

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6.	Following the guidelines of the Food and Drug Administration, Dale tries to eat at least 5 servings of fruit each day. For the first six days of one week, she had 4, 6, 3, 4, 3, and 5 servings. How many servings of fruit should Dale eat on Saturday to average at least 5 servings per day for the week?					
	For Dale to average at  A. more than 10 seconds. B. at least 10 serving. C. more than 5 serving. D. at least 5 serving. E. none of the about	ings on Saturday.  vings on Saturday.  gs on Saturday.	f the week, she must eat			
7.	One side of a triangle is 2 cm shorter than the base. The other side is 3 cm longer than the base. What lengths of the base will allow the perimeter to be greater than 19 cm?					
	Lengths of the base greater than cm will allow the perimeter to be greater than 19 cm. (Type an integer or a decimal.)					
8.	Most insurance companies will replace a vehicle any time an estimated repair exceeds 80% of the "blue-book" value of the vehicle. Michelle's insurance company paid \$8900 for repairs on her car after an accident. What can be concluded about the blue-book value of the car?					
	The 'blue book' value of Michelle's car \[ \\$ \]. (Type an inequality symbol and then an integer.)					
9.	A landscaping company is laying out a triangular flower bed. The height of the triangle is 14 ft. What lengths of the base will make the area at least 196 ft <sup>2</sup> ?					
	The base must be at least ft.					

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10.	The formula $R = -0.075t + 3.85$ can be used to predict the world record in the 1500 meter run, t years after 1930. Determine an inequality that identifies the years in which the world record will be less than 3.7 minutes.				
	Solve for t. $t > $ (Round to the nearest whole number.) The years after 1930, in which the record is less than 3.7 minutes, are described by the solution set $\{Years \mid Years > \}$ .				