Name		Date	Class	
	Project			
3	WHOOPING IT UP!			
Activity 1: Cranes and Crabs Use after Lesson 3-2				
The Photography Club sells calendars featuring photos of whooping cranes and blue crabs. Blue crabs are one of the most important sources of food for the migratory flock of whooping cranes during their winter stay at the Aransas National Wildlife Refuge in Texas.				
The Crane and Crab Calendars are sold in two sizes. The large size sells for \$14.95 and the small size sells for \$7.50.				
		d for a total income of \$2293.10. club sell? How many small calenda	ars did the club sell?	
each	2. Assume that a large calendar was purchased for each classroom in the school and that each classroom has an average of 30 students. About what percent of the students bought small calendars?			
3. How	many classrooms are there in	n your school?		
	Apply the same assumptions and the same percent you found in problem 2 to your school. What would be a good estimate of the total income if similar calendars were sold at your school?			
Activity	$m{v}$ 2: Photos and Profits $m{U}$	lse after Lesson 3-4		
Suppose your school will sell calendars and that the cost for printing a 30-page calendar, including the covers (which may or may not have photographs) is \$0.35 per page with a photograph and \$0.14 per page if there is no photograph. You plan to make all your calendars the same size and sell them for \$10.95 each. You estimate that you will sell a calendar to 40% of the teachers and 30% of the students in your school. You must have at least 12 photographic pages, one for each month. You think you can sell 100 more calendars (to parents, for example) if there is a photograph on the cover.				
1. Fill in the data about your school here:				
Num	ber of teachers:	_ Estimated number of sales to tead	:hers:	
Num	ber of students:	_ Estimated number of sales to stud	ents:	

sale of the calendars.

Explain your response.

2. Write a system of inequalities that can be used to determine the possible profit from the

3. How many calendars should you print in order to maximize the profit? _____