**SCCS Math Homework 11/4/12**

1. Consider the sequence 1, 2, 3, 1, 2, 3, 1, 2, 3, … What is the sum of the first 100 terms.
2. Heidi wrote the number 1 on 1 slip of paper, the number 2 on 2 slips of paper, the number 3 on 3 slips of paper, the number 4 on 4 slips of paper, the number 5 on 5 slips of paper and the number 6 on 6 slips of paper. All of the slips of paper were placed in a bag. If Heidi drew 1 slip at random, what is the probability that the number on that slip was odd?
3. Last year Jose sold a painting for $2000. If he made a 25% profit on the sale, how much had he paid for the painting?
4. The average weight of five students is 150.4 pounds. If no student weighs less than 130 pounds and if the difference in the weights of any two students is at least 5 pounds, what is the most that any one of the students can weigh?