**SCSU Math Homework 9-30-12**

**Please show all of your work**

1. **Checkers are stacked into four piles such that each pile has** *k* **more checkers that the previous pile. If the first pile contains 3 checkers, and there are 30 checkers in total in the four piles, what is the value of** *k***?**
2. **A water pump, working at a constant rate, fills (2/7) of a tank in (4/3) hours. What fraction of the tank will be filled at this rate after 3 hours?**
3. **If Bob, Joe and Larry have a total of 50 pieces of candy and Bob has 10 more than Joe and Larry has 5 fewer than Joe, then how many pieces of candy does Larry and Joe have together?**
4. **What number is equal to (3/5) of itself plus 240?**