Shelly has again decided to host her annual Halloween party. For last year’s party she spent $90 on sodas and she bought 30 mini pumpkins. This year she plans to buy only half as many sodas. The price of soda this year is 10% less than it was last year. She also decided she needs twice as many mini pumpkins as last year, because the “bobbing for mini pumpkins” table was so successful last year. Unfortunately she has to buy her mini pumpkins from the grocery store this year (last year she bought them from the local farmer’s market), and the grocery store charges 70% more than the $.50 per-pumpkin price she paid last year. She has $80 to spend on this year’s party. Does she have enough money, or does she have to borrow money from her husband?

**10 points**

5 points for breaking the problem into subproblems with questions written in words, 3 points for detailed numeric solution for each question, 2 points for final answer \*circled\*.

It’s that time again, time for April to host a huge April Fool party. For last year’s party she spent $60 on sodas and she bought 50 pounds of bananas. This year she plans to buy only half as many sodas. The price of soda this year is 20% more than it was last year. She also decided she needs three times as many bananas as last year, because the “pretend your banana is a phone and walk around the mall for 30 minutes” prank was so successful last year. Unfortunately the price of bananas is 75% more than the $.48 per-pound price she paid last year. She has $170 to spend on this year’s party. Does she have enough money, or does she need to borrow money from her roommate?

**10 points**

5 points for breaking the problem into subproblems with questions written in words, 3 points for detailed numeric solution for each question, 2 points for final answer \*circled\*.