

Math 201 Quiz 12 Fall 2009 NAME:

No calculators, ipods, cell phones! Show your work!

1. During a recent year, Company A's revenues were $\frac{3}{5}$ as large as Company B's revenues, but twice as large as Company C's. Company B had \$3.4 million in revenues more than Company A. What were Company C's revenues?

2. A husband and wife are driving to her mother's house. They have an appointment with a marriage counselor en route. After some time passes, the wife asks, "How far are we from our house?" The husband replies, "Half as far as from here to the counselor's office." A while after the appointment, they are 200 miles from where the wife asked her first question. She now asks a second question: "How far are we from Mother's house?" The husband takes advantage of this golden opportunity and responds, "I told you already: Half as far as from here to the counselor's office." How far apart are the two houses?

3. A farmer divides his flock of sheep among his sons. His oldest son gets twice as many sheep as the youngest son. The farmer gives his middle son $\frac{2}{3}$ as many sheep as the youngest son. The oldest son gets 120 more sheep than the middle son. How many sheep does each son inherit?