Math 1120 **Nonterminating Decimals Worksheet** **Spring 2011**

1. Write down an irrational number between $0.1\overline{7}$ and 0.18.

2. Write down an irrational number between $0.1\overline{8}$ and 0.19.

3. Write down an irrational number between $0.1\overline{9}$ and 0.20. NOTE: If you're stuck on this problem, skip it for now and go on to the next page.

4. Using techniques we've discussed in class, write $0.1\overline{9}$ as a fraction in reduced form.

5. Write 0.20 as a fraction in reduced form.

6. Now what do you think about problem 3 above?