Math 5b, homework 15.

1. Write decimal representation of fractions:



- 2. Represent the periodic infinite decimals as fractions:  $0.\overline{5}$ ,  $0.\overline{51}$ ,  $0.2\overline{35}$ ,  $0.0\overline{1}$ ,  $0.1\overline{25}$ ,
- 3. Evaluate (try to do it by the easiest possible way):  $\frac{777777 \cdot 777777}{1+2+3+4+5+6+7+6+5+4+3+2+1} - \frac{555555 \cdot 5555555}{1+2+3+4+5+4+3+2+1};$
- 4. Solve the equations: *a.* |x + 4.35| = 12.3 *b,* |25 - 4y| = 1
- 5. In still water, John's boat goes 4 times as fast as the river flow. He takes a 20 kilometers trip up the river and returns in 4 hours. Find the speed of the river flow.
- 6. At what percentage is it more profitable to put money in the bank for a year: 6% per year or 0.5% per month?

