Math 5b, homework 15.


1. Write decimal representation of fractions:

$$
\frac{4}{7} ; \quad \frac{3}{16} ; \quad \frac{12}{24} ; \quad \frac{14}{35} ; \quad \frac{3}{11} ;
$$

2. Represent the periodic infinite decimals as fractions:

$$
0 . \overline{5}, \quad 0 . \overline{51}, \quad 0.2 \overline{35}, \quad 0.0 \overline{1}, \quad 0.1 \overline{25},
$$

3. Evaluate (try to do it by the easiest possible way) :

$$
\frac{7777777 \cdot 7777777}{1+2+3+4+5+6+7+6+5+4+3+2+1}-\frac{5555555 \cdot 5555555}{1+2+3+4+5+4+3+2+1}
$$

4. Solve the equations:
a. $|x+4.35|=12.3$
b, $|25-4 y|=1$
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?
