Math 5b, classwork 13.

1. Write as decimal:

$$\frac{3}{8}; \qquad \frac{7}{4}; \qquad \frac{12}{15}; \qquad \frac{11}{15}; \qquad \frac{12}{13}$$

2. Write as infinite periodical decimal, then write as fraction:

   $0.123; \qquad 0.\overline{123}; \qquad 0.1\overline{23}; \qquad 0.12\overline{3}$

3. A motorboat with a speed of 10.5 km/h in still water traveled for 3 hours downstream and 3 hours upstream. What distance did the motorboat cover if the river current speed is 1.5 km/h?

4. The price of eggs was increased by 84 cents, which represents a 14% increase. What is the current price of a box of eggs?

5. 3 tons of potatoes were brought to the store. On the first day, 30% of all potatoes were sold, and on the second day - 45%. On which day were more potatoes sold and how many times more? Are there any extra data in the problem?

6. Express the percentage as a fraction and, if possible, reduce it: 79%, 40%, 25%, 90%.

7. Evaluate:

$$\frac{1.75 : 1.25 + 1.4 \cdot 1\frac{4}{7} + \left(2.88 + 1\frac{3}{25}\right) \cdot 0.1}{1 : \left[\left(2.5 : \frac{5}{18} - 0.9\right) : 0.09\right]}$$

8. Rite as binary: 62, 75, 121
9. Write as decimal; 1111_b, 10101_b, 1221_3.