## Math 5b, homework 13.



$$\frac{1.75:1.25+1.4\cdot1\frac{4}{7}+\left(2.88+1\frac{3}{25}\right)\cdot0.1}{1:\left[\left(2.5:\frac{5}{18}-0.9\right):0.09\right]}$$

- 2. The owner has two dogs. The big one weighs 9 kg, and the small one 3 kg. He divided a bag of food between them in a ratio equal to the ratio of their masses. What part of the food went to the small dog?
- 3. 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?
- 4. Represent as a fraction:

a. 0.345; b.  $0.\overline{345}$ , c.  $0.3\overline{45}$ , d.  $0.34\overline{5}$ 

5. Compare:

a. 
$$2^3$$
 and  $3^2$ ; b.  $3^6$  and  $6^3$ ; c.  $(-2)^4$  and  $4^2$ ; d.  $5^4$  and  $(-4)^5$   
e.  $(-2)^3$  and  $3^{-2}$ ; f.  $(-4)^{-3}$  and  $(-3)^{-4}$   
g.  $(-5)^{-6}$  and  $(-6)^{-5}$ ; h.  $(-2)^{-6}$  and  $(-6)^{-2}$ 

