Math 4a. Homework 8.

- 1. Fill the emty spaces: Example:
 - $\frac{2}{3} = \frac{2 \cdot 4}{3 \cdot 4} = \frac{8}{12};$
 - $a.\frac{6}{10} = \frac{1}{5};$ $d.\frac{1}{2} = \frac{1}{20};$ $g.\frac{5}{15} = \frac{1}{3};$
 $b.\frac{1}{2} = \frac{1}{12};$ $e.\frac{2}{8} = \frac{1}{4};$ $h.\frac{1}{4} = \frac{1}{16};$
 $c.\frac{6}{15} = \frac{1}{5};$ $f.\frac{5}{18} = \frac{1}{6};$ $i.\frac{1}{2} = \frac{1}{14};$
- 2. Compute by the most convinent way:
 - a. $\frac{3}{7} + \frac{4}{9} + \frac{4}{7} + \frac{5}{9};$ c. $\frac{1}{15} + \frac{4}{15} + \frac{1}{18} + \frac{5}{18} + \frac{2}{21} + \frac{5}{21} + \frac{1}{24} + \frac{7}{24};$ b. $\frac{1}{11} + \frac{1}{5} + \frac{4}{11} + \frac{4}{5} + \frac{6}{11};$ d. $\frac{1}{8} + \frac{1}{12} + \frac{1}{16} + \frac{1}{20} + \frac{3}{8} + \frac{5}{12} + \frac{7}{16} + \frac{9}{20}$
- 3. On the number lines below, mark the number 1.





- 5. Glass holds 200 grams of milk. Which part of glass should be filed with milk to get 160 grams.
- 6. Which of the pictures below are the cub nets?



- 7. Draw a straight line, mark the points A, B, C, D, K so that
 - a. point C belongs to the segment [AB] ($C \in [AB]$)
 - b. point *D* belongs to the ray [*AB*) and doesn't belong to the segment [*AB*] $(D \in [AB) \text{ and } D \notin [AB))$
 - c. point K belongs to the ray [*BA*) and doesn't belong to the segment [*AB*] $(K \in [BA] \text{ and } D \notin [AB))$
- 8. Draw 3 straight lines (use a ruler) so that they divide the plane into
 - a. 4
 - b. 6
 - c. 7 parts?
- 9. Draw the segment [AB] (use ruler). Mark the point K so that points A, B, and K don't lie on the same line. Through the point K
 - a. draw a line b intersecting the segment [AB]
 - b. draw a line d, which doesn't intersect the segment [AB]