Classwork #17

1. Calculate:

- $\frac{3}{20} \times \frac{5}{9} = \frac{6}{7} \times \frac{1}{3} = \frac{2}{3} \cdot \frac{5}{6} =$   $\frac{1}{4}x \cdot \frac{2}{3} = 3 \cdot \frac{2}{5}x = 12x \cdot \frac{1}{6} =$ 2. Calculate:  $\frac{1}{2} : \frac{3}{4} = \frac{1}{2} \times \frac{3}{4} =$   $6 \times \frac{2}{3} = 6 : \frac{2}{3} =$ 
  - $12 \times \frac{3}{4} =$  12 :  $\frac{3}{4} =$
  - $7 : \frac{2}{7} = 7 \times \frac{2}{7} =$

**3.** Solve the equations:

**a).** 2x + |x + 1| = 3 **b).**  $\frac{2x+1}{x-1} = 4$  2x + 1 4

 $= x \times$ 

а

x - 1

## **4.** *Solve the word problems:*

*a*). A fill-up pipe can fill a swimming pool in 4 hours. Another pipe can do the same job in 3 hours. How long will it take to fill the pool if both pipes work together?

**b).** An old printer can produce all needed copies in 3 hours. A newer model can do the same job in 2 hours. How long will it take both printers to do the job together? What fraction of the work will each printer perform?

	<b>5.</b> Expand decimal fractions:	0.12	0.02	0.102	1.102
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