Math 4 Classwork #17

1. Calculate:

$\frac{3}{20} \times \frac{5}{9} =$ $\frac{6}{7} \times \frac{1}{3} =$ $\frac{2}{3} \cdot \frac{5}{6} =$

$\frac{1}{4}x \cdot \frac{2}{3} =$ $3 \cdot \frac{2}{5}x =$ $12x \cdot \frac{1}{6} =$

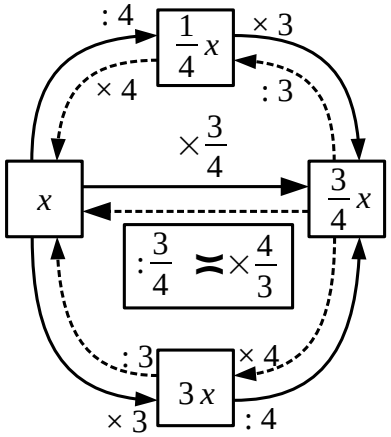
2. Calculate:

$\frac{1}{2} : \frac{3}{4} =$ $\frac{1}{2} \times \frac{3}{4} =$

$6 \times \frac{2}{3} =$ $6 : \frac{2}{3} =$

$12 \times \frac{3}{4} =$ $12 : \frac{3}{4} =$

$7 : \frac{2}{7} =$ $7 \times \frac{2}{7} =$



$x : \frac{a}{b} = x \times \frac{b}{a}$

$: \frac{a}{b} = \times \frac{b}{a}$

3. Solve the equations:

a). $2\boldsymbol{x} + |\boldsymbol{x} + 1| = 3$

b). $\frac{2x+1}{x-1} = 4$

$$\frac{\boldsymbol{x} - 1}{2\boldsymbol{x} + 1} \quad 4$$

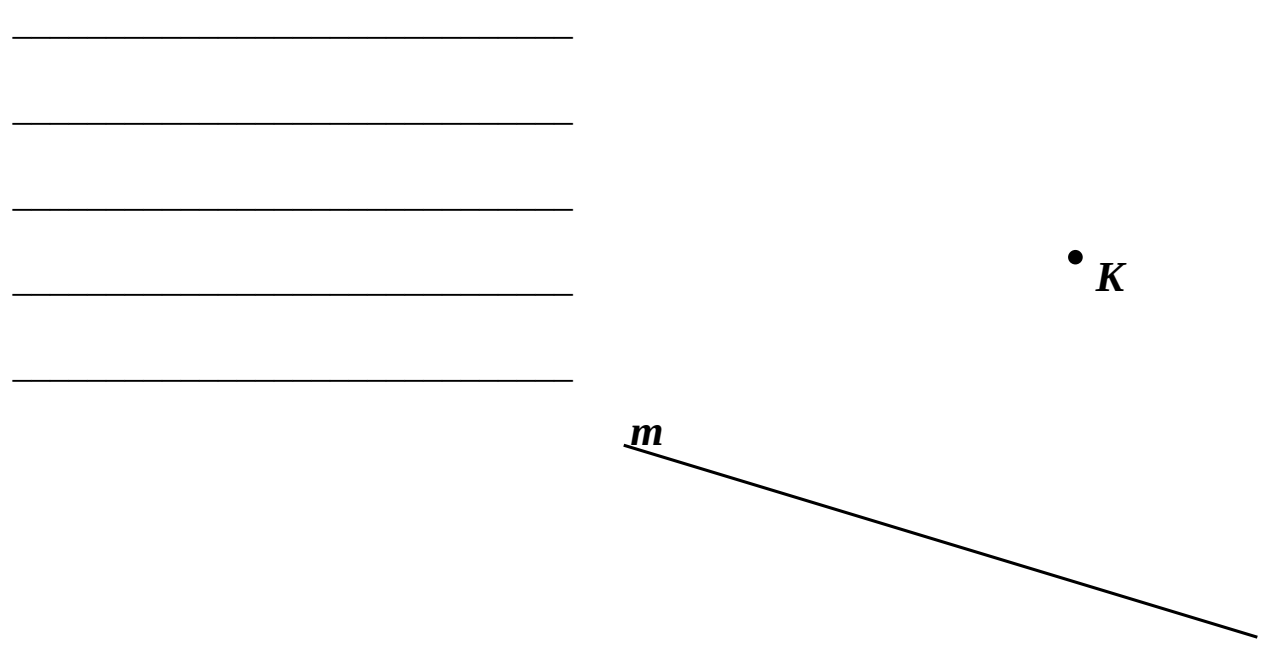
4. *Solve the word problems:*

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?

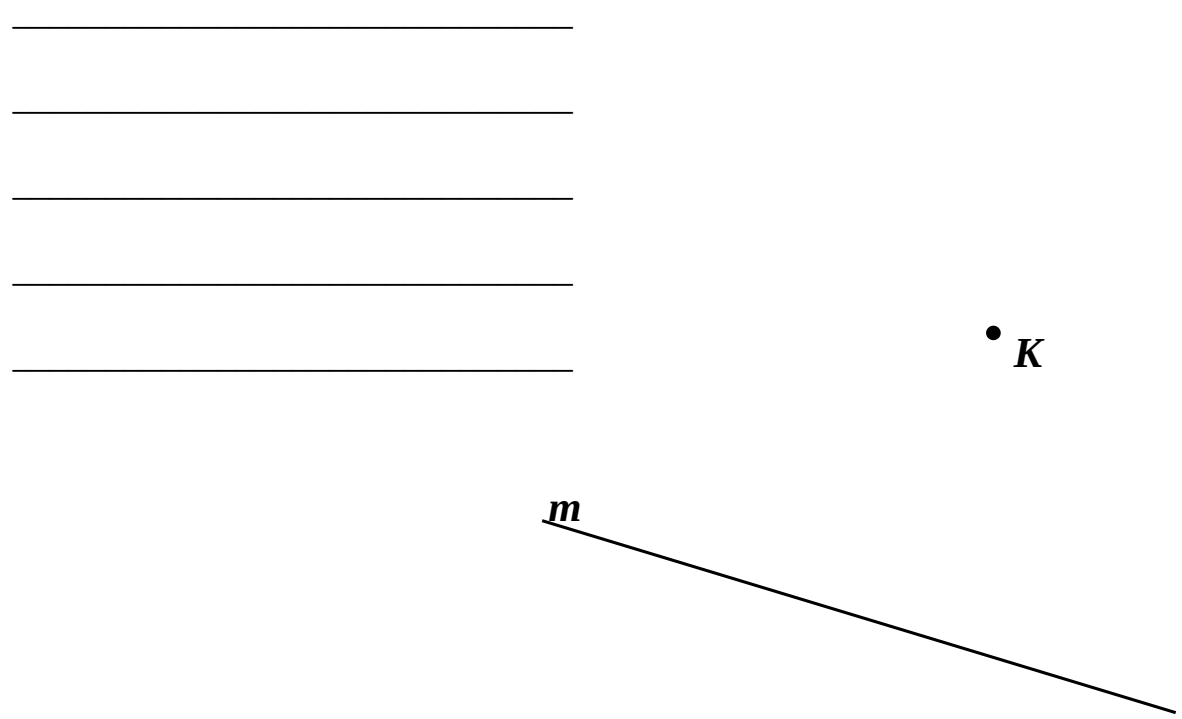
b). An old printer can produce all needed copies in 3 hours. A newer model can do the same job in 2 hours. How long will it take both printers to do the job together? What fraction of the work will each printer perform?

5. Expand decimal fractions: 0.12 0.02 0.102 1.102

6. Plot straight line ***KT*** ⊥ ***m***.

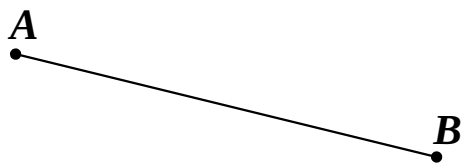


7. Plot straight line ***KT*** || ***m***.

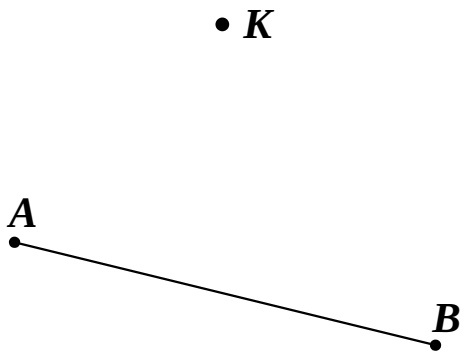


8 – Additional: a) $|x| - 2x = 1$ b) $\frac{x+1}{2x-1} = 2$

8. Divide [***AB***] into two equal segments.



9. Plot KM ⊥ AB.



Additional:

Solve equations:

a). $\frac{x+1}{2x-1} = 2$

b). $2x + |x - 1| = 2$