Complete in this handout:

1. Calculate:

$$\frac{1}{2} + \frac{1}{3} =$$

$$\frac{1}{2} \cdot \frac{1}{3} =$$

$$\frac{2}{3} + \frac{3}{4} =$$

$$\frac{2}{3} \cdot \frac{3}{4} =$$

$$\frac{5}{12} + \frac{3}{16} =$$

$$\frac{5}{12} \cdot \frac{3}{16} =$$

$$\frac{1}{4} + \frac{3}{8} =$$

$$\frac{1}{4} \cdot \frac{3}{8} =$$

$$\frac{1}{2} - \frac{1}{3} =$$

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

$$\frac{2}{3} - \frac{3}{4} =$$

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

$$\frac{5}{12} - \frac{3}{16} =$$

$$\frac{5}{12}$$
: $\frac{3}{16}$ =

$$\frac{1}{4} - \frac{3}{8} =$$

$$\frac{1}{4}:\frac{3}{8}=$$

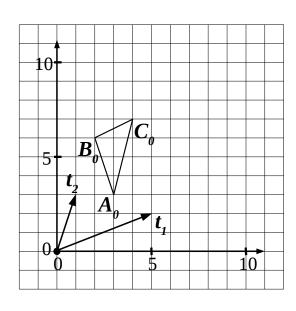
2. Expand decimal fractions:

a).
$$1.13 =$$

$$c$$
). 0.12 =

$$d$$
). $0.012 =$

3. Move $\triangle A_0B_0C_0$ as indicated by arrow t_1 to produce $\triangle A_1B_1C_1$. Move $\triangle A_1B_1C_1$ as indicated by arrow t_2 to produce $\triangle A_2B_2C_2$.



- **4.** *Solve the joint action problems; explain each step in your solution.*
- *a*). A pipe can fill up a swimming pool in 3 hours. Another pipe can drain the pool in 6 hours. How long will it take to fill the pool with both pipes open?

b). Cities **A** and **B** are 160 km away from each other. At noon a bus leaves from each city bound to another one. One bus moves 45 km/h. Another bus moves 35 km/h. When will the buses meet?

Complete in your notebook:

5. Show that ...

a) ...
$$(12x + 6)$$
: $\frac{3}{4} - (8 + 16x) \cdot \frac{3}{4} = 4x + 2$

b) ...
$$(3x-9) \cdot \frac{2}{5} - (x-3) : \frac{5}{6} = 0$$

6. Solve the equations below.

$$7-x: \frac{4}{3} = 4$$
 $\frac{2}{7}x + 8 = 6$ $\left| \frac{3}{4}y - 4 \right| = 3$ Answers: $x = 4$ $x = -7$ {28/3, 4/3}