1. a.) $\frac{3}{5} + \frac{1}{3} \cdot \frac{2}{3} - \frac{2}{5} : \frac{4}{3} = \frac{3}{5} + \frac{2}{9} - \frac{\cancel{2}^{1}}{5} \cdot \frac{3}{\cancel{4}_{2}} =$

$\frac{3}{5} + \frac{2}{9} - \frac{3}{10} = \frac{54}{90} + \frac{20}{90} - \frac{27}{90} = \underline{\underline{\frac{47}{90}}}$

b.) $\left(\frac{2}{3} - \frac{1}{6}\right) \cdot \frac{2}{5} - \frac{1}{3} : \frac{2}{5} = \left(\frac{4}{6} - \frac{1}{6}\right) \cdot \frac{2}{5} - \frac{1}{3} \cdot \frac{5}{2} =$

$\frac{\cancel{3}^{1}}{\cancel{6}_{1}} \cdot \frac{\cancel{2}^{1}}{5} - \frac{5}{6} = \frac{1}{5} - \frac{5}{6} = \frac{6}{30} - \frac{25}{30} = \underline{\underline{-\frac{19}{30}}}$

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2. a.) $\frac{2}{9} + \frac{1}{6} = \frac{4}{18} + \frac{3}{18} = \underline{\underline{\frac{7}{18}}}$

b.) $\frac{5}{12} - \frac{1}{18} = \frac{15}{36} - \frac{2}{36} = \underline{\underline{\frac{13}{36}}}$

c.) $\frac{\overset{11}{\cancel{77}}}{\underset{9}{\cancel{72}}} \cdot \frac{\cancel{40}^{5}}{\cancel{40}_{7}} = \underline{\underline{\frac{55}{63}}}$

d.) $\frac{21}{40} : \frac{12}{25} = \frac{\overset{7}{\cancel{21}}}{\underset{8}{\cancel{40}}} \cdot \frac{\cancel{25}^{5}}{\cancel{12}_{4}} = \underline{\underline{\frac{35}{32}}}$

e.) $0{,}5 : \frac{1}{3} = \frac{1}{2} : \frac{1}{3} = \frac{1}{2} \cdot \frac{3}{1} = \underline{\underline{\frac{3}{2}}}$

f.) $\frac{1}{9} \cdot 0{,}9 = \frac{1}{\cancel{9}_{1}} \cdot \frac{\cancel{9}^{1}}{10} = \underline{\underline{\frac{1}{10}}}$

g.) $4\frac{4}{9} + 1\frac{5}{6} = \frac{40}{9} + \frac{11}{6} = \frac{80}{18} + \frac{33}{18} = \underline{\underline{\frac{113}{18}}}$

h.) $\frac{45}{42} : \frac{27}{56} = \frac{\overset{5}{\cancel{45}}}{\underset{3}{\cancel{42}}} \cdot \frac{\cancel{56}^{4}}{\cancel{27}_{3}} = \underline{\underline{\frac{20}{9}}}$

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3. a.) $x = \frac{1}{4} - \frac{1}{5} = \frac{5}{20} - \frac{4}{20} = \underline{\underline{\frac{1}{20}}}$

b.) $x = 4 : \frac{2}{3} = \frac{\cancel{4}^{2}}{1} \cdot \frac{3}{\cancel{2}_{1}} = \frac{6}{1} = \underline{\underline{6}}$

c.) $x = \frac{3}{4} : \frac{2}{3} = \frac{3}{4} \cdot \frac{3}{2} = \underline{\underline{\frac{9}{8}}}$

d.) $x = 2\frac{5}{\cancel{6}_{3}} \cdot \frac{\cancel{3}^{1}}{4} = \underline{\underline{\frac{5}{8}}}$

4. $\frac{3}{4}$ von $x = \frac{4}{3}$ $\rightarrow$ $\frac{3}{4} \cdot x = \frac{4}{3}$

$\Rightarrow$ $x = \frac{4}{3} : \frac{3}{4} = \frac{4}{3} \cdot \frac{4}{3} = \underline{\underline{\frac{16}{9}}}$

5.

·	$\frac{2}{3}$	$\frac{3}{40} = \frac{3}{20}$
$\frac{5}{6}$	$\frac{10}{15} = \frac{5}{9}$	$\frac{1}{8}$
$\frac{9}{8}$	$\frac{3}{4}$	$\frac{27}{160}$

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6. a.) $\frac{5}{8} - \frac{3}{8} \cdot \frac{2}{3} + \frac{1}{3} : \frac{3}{4} = \frac{5}{8} - \frac{1}{4} + \frac{1}{3} \cdot \frac{4}{3} =$

$\frac{5}{8} - \frac{1}{4} + \frac{4}{9} = \frac{45}{72} - \frac{18}{72} + \frac{32}{72} = \underline{\underline{\frac{59}{72}}}$

b.) $\left(\frac{5}{12} + \frac{1}{6}\right) \cdot \frac{2}{3} - \frac{1}{6} : \frac{3}{8} = \left(\frac{5}{12} + \frac{2}{12}\right) \cdot \frac{2}{3} - \frac{1}{6} \cdot \frac{8}{3} =$

$\frac{7}{12} \cdot \frac{2}{3} - \frac{4}{9} = \frac{7}{18} - \frac{4}{9} = \frac{7}{18} - \frac{8}{18} = \underline{\underline{-\frac{1}{18}}}$

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7. a.) $x = 7{,}2 - 0{,}72 = \underline{\underline{6{,}48}}$

b.) $x = 0{,}002 : 0{,}5 = 2 : 500 = \frac{2}{500} = \underline{\underline{\frac{1}{250}}}$

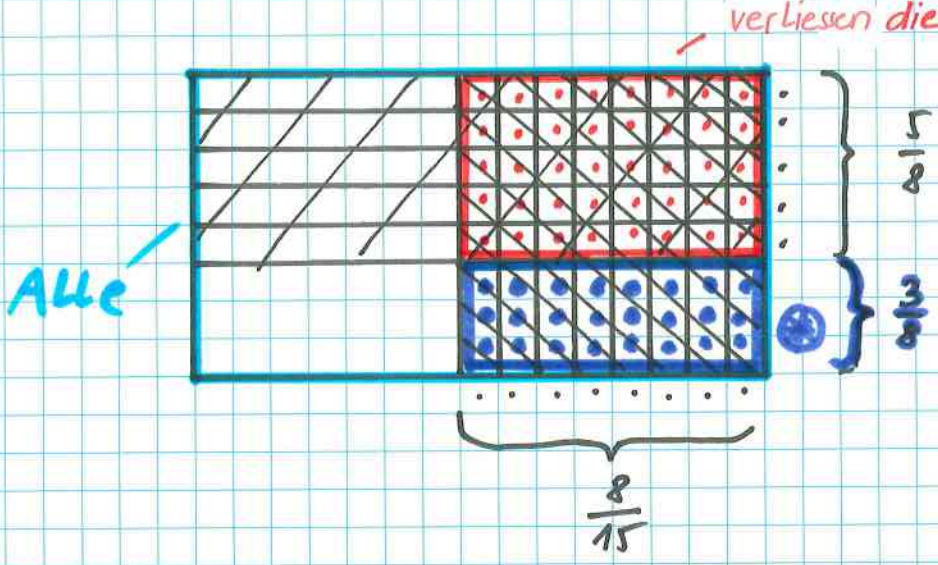
c.) $x = 7{,}5 - 0{,}75 = \underline{\underline{6{,}75}}$

d.) $x = 1{,}2 : 20 = 12 : 200 = \frac{12}{200} = \underline{\underline{\frac{3}{50}}}$

e.) $x = 6 : 0{,}04 = 600 : 4 = \underline{\underline{150}}$

f.) $x = 0{,}8 \cdot 0{,}08 = \underline{\underline{0{,}064}}$

8.



⇒ $\frac{5}{8}$ von $\frac{8}{15}$ verliessen die Versammlung

↷ $\frac{5}{8} \cdot \frac{8}{15} = \boxed{\frac{40}{120}}$

⇒ folglich waren noch anwesend:

$\boxed{\frac{24}{120}}$

↷ $\frac{3}{8} \cdot \frac{8}{15} = \frac{\overset{1}{24}}{\underset{5}{120}} = \underline{\underline{\frac{1}{5}}}$