

8: Recapitulare

$$1/107 \cdot a) \frac{7}{2} + \frac{2}{2} = \frac{9}{2}$$

$$b) \frac{70}{100} + \frac{12}{100} = \frac{82}{100}$$

$$c) \frac{4}{5} + \frac{2}{5} + \frac{1}{5} = \frac{6}{5} + \frac{1}{5} = \frac{7}{5}$$

$$d) \frac{10}{8} + \frac{6}{8} + \frac{9}{8} = \frac{16}{8} + \frac{9}{8} = \frac{25}{8}$$

$$2/107 \cdot \frac{2}{3} + \frac{4}{3} + \frac{1}{3} + \frac{3}{3} = \frac{6}{3} + \frac{4}{3} = \frac{10}{3}$$

$$\frac{5}{6} + \frac{2}{6} + \frac{1}{6} + \frac{3}{6} = \frac{7}{6} + \frac{4}{6} = \frac{11}{6}$$

$$\frac{1}{2} + \frac{2}{2} + \frac{4}{2} + \frac{3}{2} = \frac{3}{2} + \frac{7}{2} = \frac{10}{2} = 5$$

$$\frac{5}{8} + \frac{1}{8} + \frac{3}{8} + \frac{2}{8} = \frac{6}{8} + \frac{5}{8} = \frac{11}{8}$$

$$\frac{20}{100} + \frac{11}{100} + \frac{30}{100} + \frac{24}{100} = \frac{31}{100} + \frac{54}{100} = \frac{85}{100}$$

$$\frac{3}{5} + \frac{1}{5} + \frac{2}{5} + \frac{4}{5} = \frac{4}{5} + \frac{6}{5} = \frac{10}{5} = 2$$

$$3/107 \cdot \frac{3}{4} + \frac{3}{4} = \frac{6}{4}$$

$$\frac{8}{4} + \frac{3}{4} = \frac{11}{4}$$

$$\frac{5}{4} + \frac{3}{4} = \frac{8}{4}$$

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

$$\frac{2}{4} + \frac{3}{4} = \frac{5}{4}$$

$$\frac{7}{4} + \frac{3}{4} = \frac{10}{4}$$

$$4/107 \cdot x - \frac{9}{31} = \frac{7}{31}$$

$$x - \frac{1}{2} = \frac{9}{2}$$

$$x = \frac{7}{31} + \frac{9}{31} = \frac{16}{31}$$

$$x = \frac{9}{2} + \frac{1}{2} = \frac{10}{2} = 5$$

$$x - \frac{17}{2} = \frac{3}{2}$$

$$x - \frac{1}{7} = \frac{5}{7}$$

$$x = \frac{3}{2} + \frac{17}{2} = \frac{20}{2} = 10$$

$$x = \frac{5}{7} + \frac{1}{7} = \frac{6}{7}$$

$$5/107. \quad a) \frac{6}{2} - \frac{6}{2} = 0$$

$$b) \frac{4}{5} - \frac{2}{5} = \frac{2}{5}$$

$$c) \frac{4}{8} - \frac{2}{8} = \frac{2}{8}$$

$$d) \frac{10}{10} - \frac{6}{10} = \frac{4}{10}$$

$$6/108. \quad \frac{9}{3} - \frac{4}{3} - \frac{1}{3} = \frac{9-4-1}{3} = \frac{5-1}{3} = \frac{4}{3}$$

$$\frac{15}{6} - \frac{2}{6} - \frac{3}{6} = \frac{15-2-3}{6} = \frac{13-3}{6} = \frac{10}{6}$$

$$\frac{10}{2} - \frac{4}{2} - \frac{3}{2} = \frac{10-4-3}{2} = \frac{6-3}{2} = \frac{3}{2}$$

$$\frac{8}{8} - \frac{1}{8} - \frac{2}{8} = \frac{8-1-2}{8} = \frac{7-2}{8} = \frac{5}{8}$$

$$\frac{17}{100} - \frac{12}{100} - \frac{3}{100} = \frac{17-12-3}{100} = \frac{5-3}{100} = \frac{2}{100}$$

$$\frac{12}{5} - \frac{4}{5} - \frac{2}{5} = \frac{12-4-2}{5} = \frac{8-2}{5} = \frac{6}{5}$$

$$7/108. \quad \frac{7}{9} - \frac{1}{9} = \frac{7-1}{9} = \frac{6}{9}$$

$$\frac{6}{9} - \frac{1}{9} = \frac{6-1}{9} = \frac{5}{9}$$

$$\frac{2}{9} - \frac{1}{9} = \frac{2-1}{9} = \frac{1}{9}$$

$$\frac{8}{9} - \frac{1}{9} = \frac{8-1}{9} = \frac{7}{9}$$

$$\frac{9}{9} - \frac{1}{9} = \frac{9-1}{9} = \frac{8}{9}$$

$$8/108. \quad a) \frac{91}{100} - x = \frac{74}{100}$$

$$b) x + \frac{1}{2} = \frac{9}{2}$$

$$x = \frac{91}{100} - \frac{74}{100}$$

$$x = \frac{9}{2} - \frac{1}{2}$$

$$x = \frac{91-74}{100} = \frac{17}{100}$$

$$x = \frac{9-1}{2} = \frac{8}{2} = 4$$

$$c) \frac{12}{4} - x = \frac{3}{4}$$

$$d) x + \frac{1}{8} = \frac{5}{8}$$

$$x = \frac{12}{4} - \frac{3}{4} = \frac{12-3}{4}$$

$$x = \frac{5}{8} - \frac{1}{8} = \frac{5-1}{8}$$

$$x = \frac{9}{4}$$

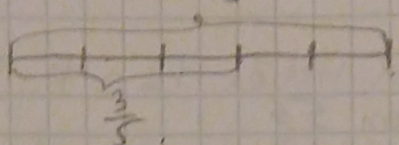
$$x = \frac{4}{8}$$

$$9/108: \frac{1}{2} + \frac{3}{2} + \frac{2}{2} = \frac{1+3+2}{2} = \frac{4+2}{2} = \frac{6}{2} = 3 \text{ Kg de fructe a cumpărat}$$

$$10/108: \frac{6}{2} - \frac{3}{2} = \frac{6-3}{2} = \frac{3}{2} \text{ Kg roșii}$$

$$\frac{6}{2} + \frac{3}{2} + \frac{1}{2} = \frac{6+3+1}{2} = \frac{9+1}{2} = \frac{10}{2} = 5 \text{ Kg de legume a cumpărat}$$

$$11/108: \frac{3}{5} \text{ din } 45$$

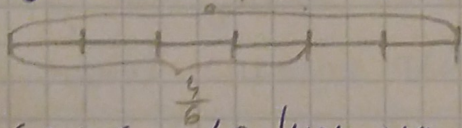


$$45 : 5 = 9 \text{ (un segment)}$$

$$9 \times 3 = 27 \text{ (încalcamă } \frac{3}{5} \text{ din } 45)$$

$$\text{Adică: } (45 : 5) \times 3 = 9 \times 3 = 27 \text{ sau } (45 \times 3) : 5 = 135 : 5 = 27$$

$$\frac{4}{6} \text{ din } 60$$



$$60 : 6 = 10 \text{ (un segment)}$$

$$10 \times 4 = 40 \text{ (} \frac{4}{6} \text{ din } 60)$$

$$\text{Adică: } (60 : 6) \times 4 = 10 \times 4 = 40 \text{ sau } (60 \times 4) : 6 = 240 : 6 = 40$$

$$7 \text{ din } 35$$

$$\text{Adică: } 7 \text{ din } 35 \text{ încalcamă } 35 : 7 = 5$$

$$\frac{6}{9} \text{ din } 72$$

$$\text{Adică: } (72 : 9) \times 6 = 8 \times 6 = 48$$

$$12/108: \text{ a) } \frac{3}{9} \text{ din } 36 \quad \square \quad \frac{5}{8} \text{ din } 40$$

$$36 : 9 \times 3 = 4 \times 3 = 12 \quad \square \quad 40 : 8 \times 5 = 5 \times 5 = 25$$

$$25 - 12 = 13$$

$$b) \frac{4}{7} \text{ din } 28 \quad \boxed{>} \quad \frac{2}{8} \text{ din } 32$$

$$28 : 7 \times 4 = 4 \times 4 = 16 \quad \boxed{>} \quad 32 : 8 \times 2 = 4 \times 2 = 8$$

$$16 - 8 = 8$$

$$c) \frac{5}{6} \text{ din } 24 \quad \boxed{<} \quad \frac{4}{5} \text{ din } 35$$

$$24 : 6 \times 5 = 4 \times 5 = 20 \quad \boxed{<} \quad 35 : 5 \times 4 = 7 \times 4 = 28$$

$$28 - 20 = 8$$

$$d) \frac{3}{10} \text{ din } 100 \quad \boxed{=} \quad \frac{5}{9} \text{ din } 54$$

$$100 : 10 \times 3 = 10 \times 3 = 30 \quad \boxed{=} \quad 54 : 9 \times 5 = 6 \times 5 = 30$$

$$30 - 30 = 0$$

$$13/108 \cdot a = 35$$

$$b = \frac{1}{7} \text{ din } 35$$

$$c = \frac{1}{5} \text{ din } b$$

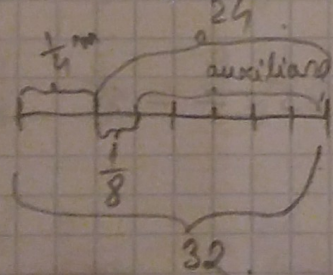
$$\frac{a+b+c=?}{\hline}$$

$$b = 35 : 7 \times 1 = 5 \times 1 = 5$$

$$c = 5 : 5 \times 1 = 1 \times 1 = 1$$

$$a+b+c = 35+5+1 = 40+1 = 41$$

$$14/109 \cdot$$



$$\text{manuale} = \frac{1}{4} \text{ din } 32 \Rightarrow m = 32 : 4 \times 1 = 8 \times 1 = 8$$

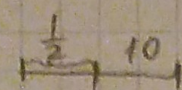
$$32 - 8 = 24 \text{ (reprezinta 6 segmente egale)}$$

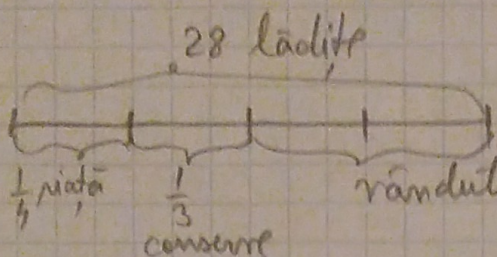
$$24 : 6 = 4 \text{ (sunt dictionare) (un segment)}$$

$$\text{(sau } \frac{1}{8} \text{ din } 32 \Rightarrow 32 : 8 \times 1 = 4 \times 1 = 4 \text{ dictionare)}$$

$$5 \times 4 = 20 \text{ auxiliare}$$

$$\text{(sau } 32 - 8 - 4 = 24 - 4 = 20 \text{ auxiliare)}$$

15/109 
 $10 \times 2 = 20$ lei a avut la început Tonel

16/109 

$\frac{1}{4}$ din 28 $\Rightarrow 28 : 4 \times 1 = 7 \times 1 = 7$ lădițe trimise la piață

$28 - 7 = 21$ lădițe rămase

$\frac{1}{3}$ din 21 $\Rightarrow 21 : 3 \times 1 = 7 \times 1 = 7$ lădițe pentru conserve

$28 - 7 - 7 = 21 - 7 = 14$ lădițe a cumpărat vecinul

17/109, 4 cutii = 36 creioane colorate


$\frac{1}{3}$ din fiecare cutie sunt creioane roșii ($\frac{1}{3}$ din $36 : 4$)
restul creioane albastre.

? creioane roșii și câte albastre sunt în fiecare cutie

$36 : 4 = 9$ creioane colorate sunt în fiecare cutie

$\frac{1}{3}$ din 9 $\Rightarrow 9 : 3 \times 1 = 3 \times 1 = 3$ creioane roșii într-o cutie

$9 - 3 = 6$ creioane albastre într-o cutie

18/109 
 $\frac{1}{4}$ din drum = 10 Km
 $10 \times 4 = 40$ Km are drumul

19/109 $\frac{1}{10}$ din 40 $\Rightarrow 40 : 10 \times 1 = 4 \times 1 = 4$ bile negre
 $40 - 4 = 36$ bile rămase în cutie

$\frac{1}{6}$ din 36 $\Rightarrow 36 : 6 \times 1 = 6 \times 1 = 6$ bile albe

$36 - 6 = 30$ bile roșii

$$20/109 \quad \frac{1}{5} \text{ din } 45 \Rightarrow 45 : 5 \times 1 = 9 \times 1 = 9 \text{ pagini citite}$$

$$45 - 9 = 36 \text{ pagini rămase de citit}$$

$$36 : 6 = 6 \text{ pagini citite de Alin în fiecare zi}$$

$$21/110 \quad \frac{1}{2} \text{ dintr-un Kg} = \underline{0,500 \text{ Kg}} = \underline{500 \text{ g}}$$

$$\frac{3}{4} \text{ dintr-un Kg} = \underline{0,750 \text{ Kg}} = \underline{750 \text{ g}}$$

$$\frac{1}{4} \text{ dintr-un Kg} = \underline{0,250 \text{ Kg}} = \underline{250 \text{ g}}$$

$$22/110 \quad \frac{4}{9} \text{ din } 54 \Rightarrow 54 : 9 \times 4 = 6 \times 4 = 24 \text{ lei a cheltuit în } \underline{1} \text{ zi}$$

$$54 - 24 = 30 \text{ lei a rămas}$$

$$\frac{2}{6} \text{ din } 30 \Rightarrow 30 : 6 \times 2 = 5 \times 2 = 10 \text{ lei a cheltuit a} \underline{11} \text{ zi}$$

$$30 - 10 = 20 \text{ lei i-a rămas Juliei}$$

$$23/110 \quad \frac{4}{5} \text{ din } 2675 \Rightarrow 2675 : 5 \times 4 = 535 \times 4 = 2140 \text{ Kg mere}$$

s-au vândut

$$\frac{5}{6} \text{ din } 2454 \Rightarrow 2454 : 6 \times 5 = 409 \times 5 = 2045 \text{ Kg pere}$$

s-au vândut

$$2140 \times 3 + 2045 \times 8 = 6420 + 16360 = 22780 \text{ lei}$$

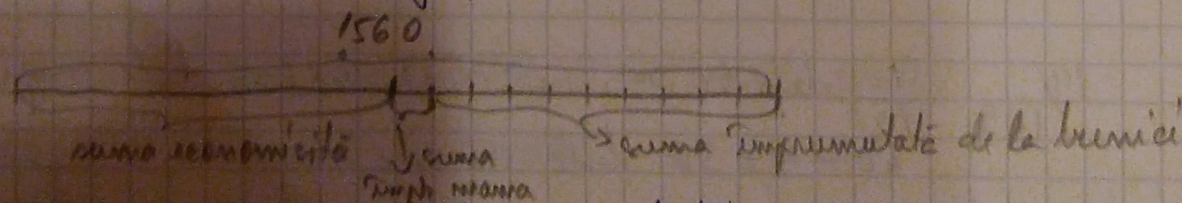
s-au încasat pe marfa vândută

$$2675 - 2140 = 535 \text{ Kg mere rămase nevândute}$$

$$2454 - 2045 = 409 \text{ Kg pere nevândute}$$

$$535 + 409 = 944 \text{ Kg fructe au rămas nevândute}$$

24/110



$$1560 : 2 = 780 \text{ suma împrumutată}$$

$$\frac{1}{10} \text{ din } 780 \Rightarrow 780 : 10 \times 1 = 78 \text{ suma împrumutată de la mama}$$

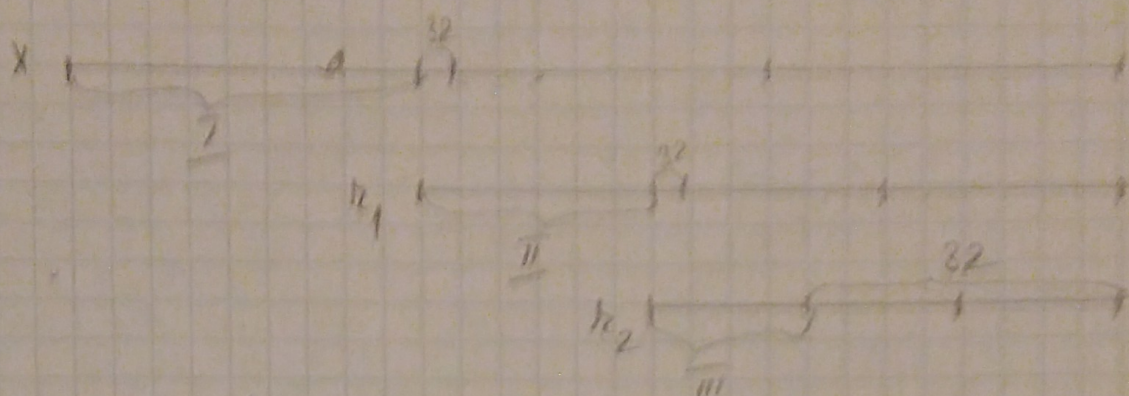
$$(780 - 78) : 2 = 702 : 2 = 351 \text{ suma împrumutată de la fiecea bunică}$$

25/110. $x =$ suma de bani pe care o are bunica.

$$\text{I} = \frac{1}{3} \text{ din } x + 32$$

$$\text{II} = \frac{1}{3} \text{ din } r_1 + 32$$

$$\text{III} = \frac{1}{3} \text{ din } r_2 + 32$$



$$32 : 2 = 16 \text{ lei (1 seq. de 4 pătrițele)}$$

$$16 \times 3 = 48 \text{ lei (} r_2 \text{) a primit al III-lea nepot}$$

$$48 + 32 = 80 \text{ lei (2 seq. egale de 6 pătrițele)}$$

$$80 : 2 = 40 \text{ lei (1 seq. de 6 pătrițele)}$$

$$40 \times 3 = 120 \text{ lei (} r_1 \text{)}$$

$$120 : 3 + 32 = 40 + 32 = 72 \text{ lei a primit al II-lea nepot}$$

$$120 + 32 = 152 \text{ (2 segmente egale de 9 pătrițele)}$$

$$152 : 2 = 76 \text{ lei (1 seq. de 9 pătrițele)}$$

$$76 \times 3 = 228 \text{ lei a avut bunica}$$

$$228 : 3 + 32 = 76 + 32 \text{ lei a primit primul nepot}$$