

5. Recapitulare

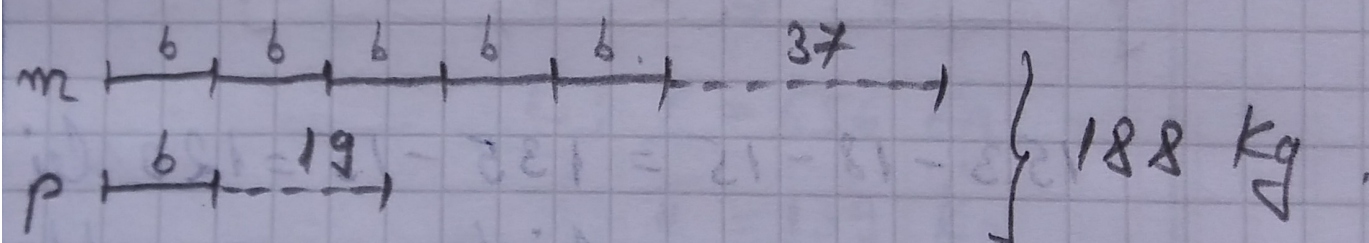
$$\begin{aligned} \frac{1}{86} \quad m + p &= 188 \text{ Kg} \\ m - 37 &= a \Rightarrow m = a + 37 \\ p - 19 &= b \Rightarrow p = b + 19 \\ a &= 5 \times b \end{aligned}$$

m = nr. de Kg mere

p = nr. de Kg pere

a = nr. de Kg mere rămase

b = nr. de Kg pere rămase



$$188 - 37 - 19 = 151 - 19 = 132 \text{ Kg (6 segmente egale)}$$

$$132 : 6 = 22 \text{ Kg (un segment)}$$

$$22 + 19 = 41 \text{ Kg pere}$$

$$5 \times 22 + 37 = 110 + 37 = 147 \text{ Kg mere}$$

R: 41 Kg pere

147 Kg mere

$$\frac{2}{86} \cdot A + J = 153 \text{ lei}$$

$$A - 18 = a \Rightarrow A = a + 18$$

$$J - 15 = b \Rightarrow J = b + 15$$

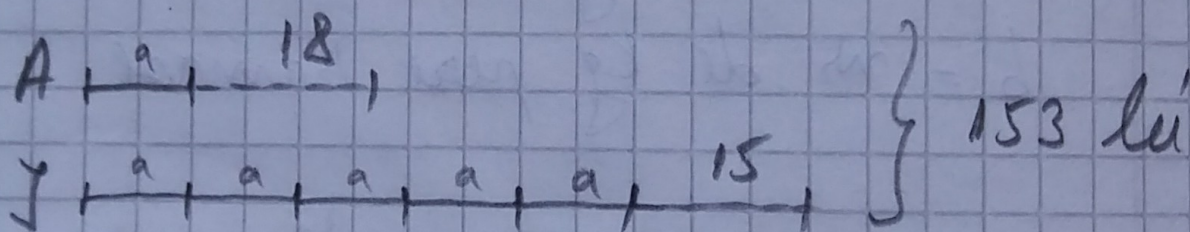
$$a = b : 5 \Rightarrow b = a \times 5$$

A = suma de bani pe care o are Alina

J = suma de bani pe care o are Joana

a = suma de lei rãmasã a Alinei

b = suma de lei rãmasã a Joanei



$$153 - 18 - 15 = 135 - 15 = 120 \text{ lei (6 seg. egale)}$$

$$120 : 6 = 20 \text{ lei (un segment)}$$

$$20 + 18 = 38 \text{ lei Alina}$$

$$20 \times 5 + 15 = 100 + 15 = 115 \text{ lei Joana}$$

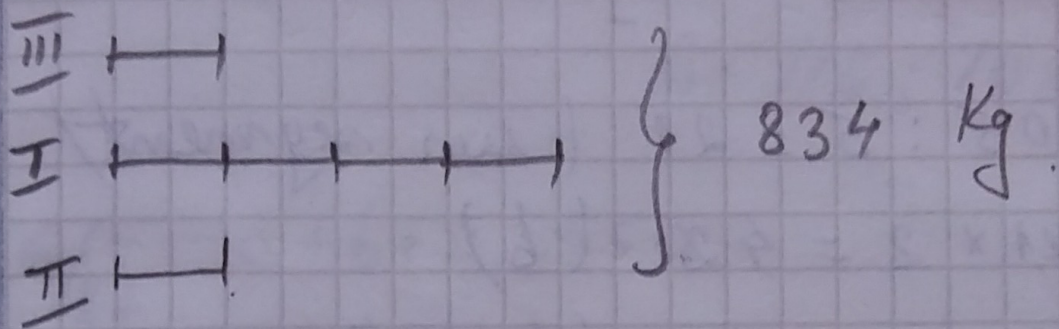
R: 38 lei Alina

115 lei Joana

$$\frac{3}{86} \cdot \underline{\text{I}} + \underline{\text{II}} + \underline{\text{III}} = 834 \text{ Kg}$$

$$\underline{\text{I}} = 4 \times \underline{\text{III}}$$

$$\underline{\text{II}} = (\underline{\text{I}} + \underline{\text{III}}) : 5 \Rightarrow \underline{\text{I}} + \underline{\text{III}} = \underline{\text{II}} \times 5$$



$$834 : 6 = 139 \text{ (un segment)}$$

$$\underline{\text{II}} = \underline{\text{III}} = 139 \text{ Kg}$$

$$\underline{\text{I}} = 4 \times 139 = 556 \text{ Kg}$$

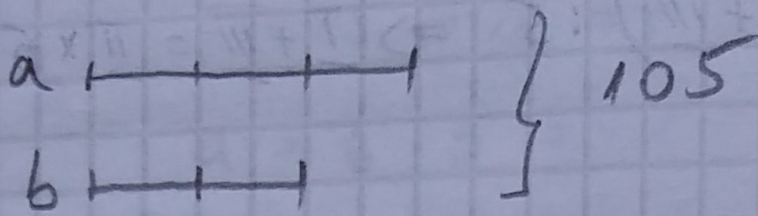
$$R: \underline{\text{I}} = 556 \text{ Kg}$$

$$\underline{\text{II}} = 139 \text{ Kg}$$

$$\underline{\text{III}} = 139 \text{ Kg}$$

$$4/86 \quad a - b = a : 3 \Rightarrow a = (a : 3) + b$$

$$a + b = 105$$



$$105 : 5 = 21 \quad (\text{un segment})$$

$$21 \times 2 = 42 \quad (b)$$

$$21 \times 3 = 63 \quad (a)$$

$$V: a - b = 63 - 42 = 21 = 63 : 3$$

$$R: 42; 63$$

$$5/86 \quad a + b + c = 256$$

$$c = (a + b) : 7 \Rightarrow a + b = c \times 7$$

$$a - b = c : 4$$

$$7 \times c + c = 256$$

$$8 \times c = 256 \Rightarrow c = 256 : 8 = 32$$

$$a - b = 32 : 4 = 8$$

$$a - b = 8 \Rightarrow a = 8 + b$$

$$8 + b + b + 32 = 256$$

$$2b + 40 = 256$$

$$2b = 256 - 40 = 216$$

$$b = 216 : 2 = 108$$

$$a = 8 + 108 = 116$$

$$R: 116; 108; 32$$

$$6/87. \quad a + b + c = 450$$

$$c = (a + b) : 2 \Rightarrow a + b = c \times 2$$

$$b - a = a : 2 \Rightarrow (b - a) \times 2 = a$$

$$2 \times c + c = 450$$

$$3 \times c = 450 \Rightarrow c = 450 : 3 = 150$$

$$a + b = 150 \times 2$$

$$a + b = 300 \Rightarrow b = 300 - a$$

$$(b - a) \times 2 = a$$

$$2b - 2a = a$$

$$2 \times (300 - a) - 2a = a$$

$$600 - 2a - 2a = a$$

$$a + 2a + 2a = 600$$

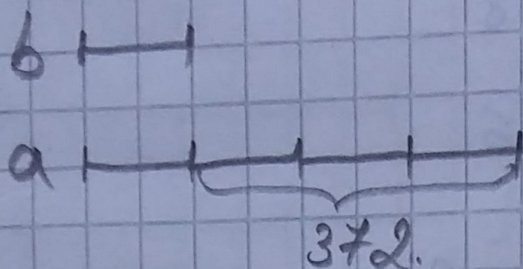
$$5a = 600 \Rightarrow a = 600 : 5 = 120$$

$$b = 300 - 120 = 180$$

$$R: 120; 180; 150$$

$$7/87. \quad a - b = 372 \Rightarrow a = 372 + b$$

$$b = a : 4 \Rightarrow a = b \times 4$$



$$372 : 3 = 124 \quad (b)$$

$$124 \times 4 = 496 \quad (a)$$

$$R: 496; 124$$

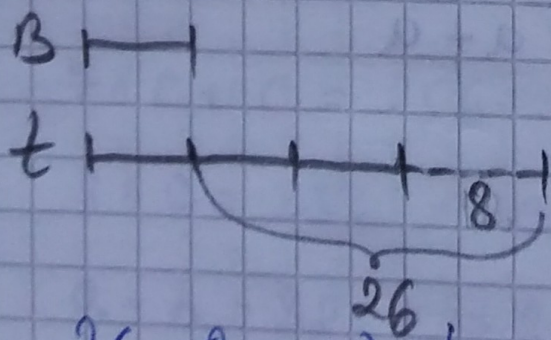
$$8/87. \quad t = 26 + B$$

$$B + 4 = (t + 4) : 3 \Rightarrow t + 4 = (B + 4) \times 3$$

$$t + 4 = 3 \times B + 12$$

$$t = 3 \times B + 12 - 4$$

$$t = 3 \times B + 8$$



$$26 - 8 = 18 \quad (2 \text{ segmente egale})$$

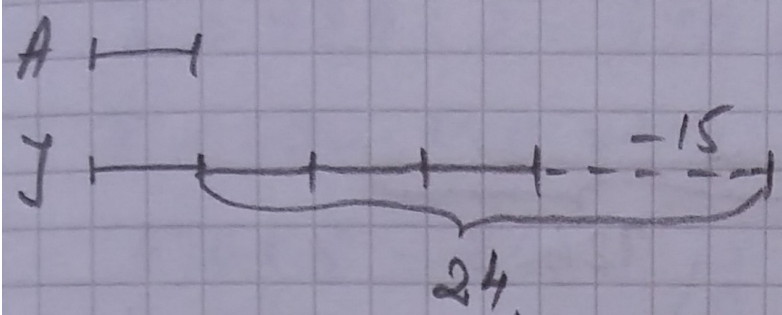
$$18 : 2 = 9 \quad (\text{un segment}) \text{ ani Bogdan}$$

$$9 + 26 = 35 \text{ ani tata}$$

$$9/87 \quad A = J - 24 \Rightarrow J = A + 24$$

$$J - 5 = 4 \times (A - 5) \Rightarrow J = 4A - 20 + 5$$

$$J = 4 \times A - 15$$



$$24 + 15 = 39 \quad (3 \text{ segments egale})$$

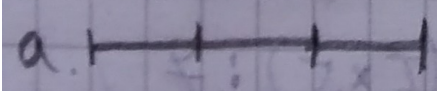
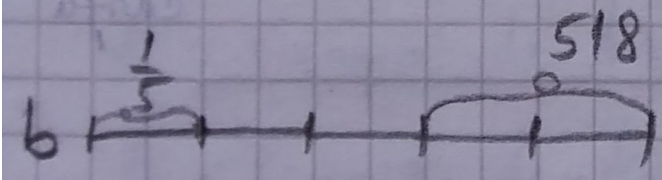
$$39 : 3 = 13 \text{ ani (un segment) Aurelia}$$

$$13 + 24 = 37 \text{ ani Trina}$$

R: 13 ani Aurelia
37 ani Trina

$$10/87 \quad b - a = 518 \Rightarrow b = 518 + a$$

$$a : 3 = b : 5 \Rightarrow a = (b : 5) \times 3$$



$$518 : 2 = 259 \quad (\text{un segment})$$

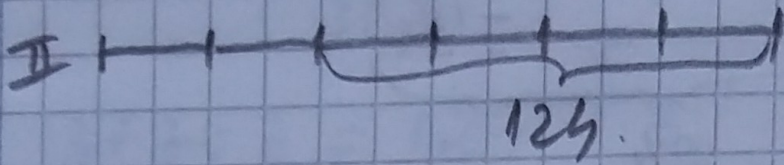
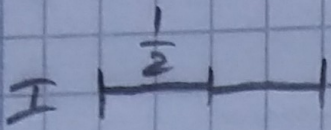
$$259 \times 3 = 777 \quad (a)$$

$$259 \times 5 = 1295 \quad (b)$$

R: 777; 1295

$$11/87. \quad I + 124 = II$$

$$I : 2 = II : 6 \Rightarrow II = (I : 2) \times 6$$



$$124 : 4 = 31 \text{ (un segment) lei}$$

$$31 \times 2 = 62 \text{ lei (I)}$$

$$31 \times 6 = 186 \text{ lei (II)}$$

$$12/87. \quad II = I - 140$$

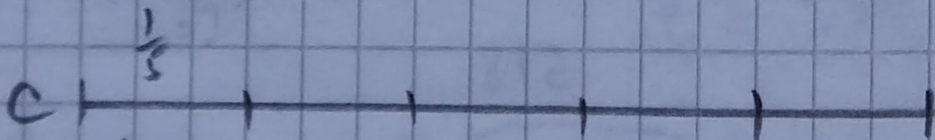
I = câte pg a citit
primul

$$I = c : 5 \Rightarrow c = I \times 5$$

II = câte pg. a citit
al II lea

$$II = c : 7 \Rightarrow c = II \times 7$$

c = nr. de pagini, ale
cărții



$$I \times 5 = II \times 7 \Rightarrow II = (I \times 5) : 7 \Rightarrow$$

$$II = I - 140$$

$$\Rightarrow (I \times 5) : 7 = I - 140$$

$$I \times 5 = (I - 140) \times 7$$

$$I \times 5 = \underline{I} \times 7 - 140 \times 7$$

$$7 \times I - 5 \times I = 980$$

$$2 \times I = 980$$

$$I = 980 : 2 = 490 \text{ pg a citit } \underline{I}.$$

$$\underline{II} = 490 - 140 = 350 \text{ pg a citit al } \underline{II} \text{-lea}$$

$$490 \times 5 = 2450 \text{ pg are cartea}$$

$$2450 - 490 = 1960 \text{ pg mai are de citit } \underline{I}$$

$$2450 - 350 = 2100 \text{ pg mai are de citit al } \underline{II} \text{-lea.}$$

$$13/84, A = S : 3 \Rightarrow S = A \times 3$$

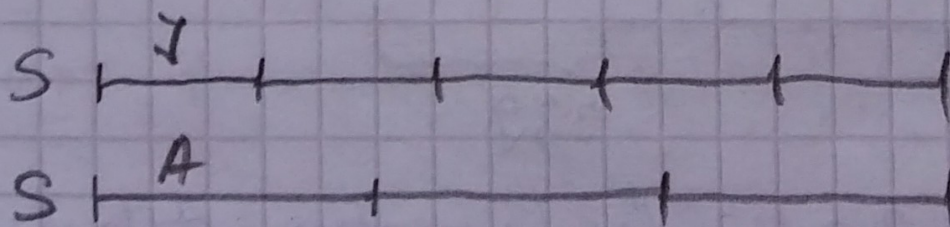
$$J = S : 5 \Rightarrow S = J \times 5$$

$$J = A - 240 \Rightarrow A = J + 240$$

A = suma de bani cheltuită de Ana

J = suma de bani cheltuită de Julia

S = suma de bani



$$S = A \times 3$$

$$S = J \times 5$$

$$\Rightarrow A \times 3 = J \times 5$$

$$A = J + 240$$

$$\Rightarrow (J + 240) \times 3 = J \times 5$$

$$3 \times J + 240 \times 3 = 5 \times J$$

$$5 \times J - 3 \times J = 720$$

$$2 \times J = 720 \Rightarrow J = 720 : 2 = 360 \text{ lei a cheltuit Julia}$$

$$A = J + 240 = 360 + 240 = 600 \text{ lei a cheltuit Ana}$$

$$600 \times 3 = 1800 \text{ lei a avut la început fiecare}$$

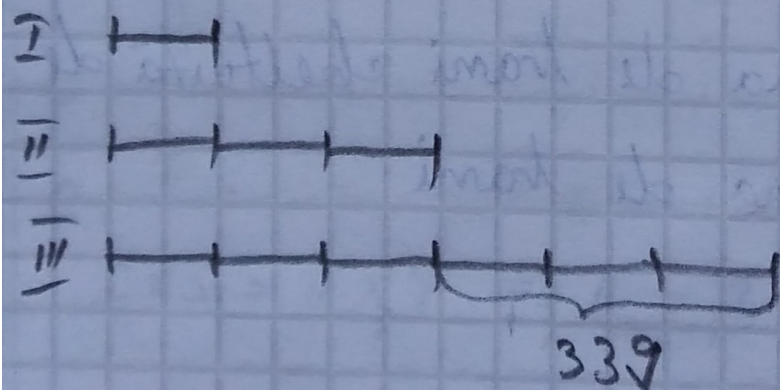
$$1800 - 600 = 1200 \text{ lei mai are Ana}$$

$$1800 - 360 = 1440 \text{ lei mai are Julia}$$

$$14/87, \frac{II}{I} = 3 \times \frac{I}{I}$$

$$\frac{III}{I} = 6 \times \frac{I}{I}$$

$$\frac{III}{I} = 339 + \frac{II}{I}$$



$$339 : 3 = 113 \text{ lei (un segment) a cheltuit în } \frac{I}{I} \text{ zi}$$

$$113 \times 6 = 678 \text{ lei a cheltuit în a } \frac{III}{I} \text{ zi}$$

$$113 \times 3 = 339 \text{ lei a cheltuit în a } \frac{II}{I} \text{ zi}$$

$$113 + 678 + 339 = 1130 \text{ lei a avut Julia}$$

R: 1130 lei

15/87. $a =$ reprezintă suma pe care o am

$$a \times 3 = 500 + a : 2$$

$$a \times 3 - 500 = a : 2$$

$$a = (a \times 3 - 500) \times 2$$

$$a = a \times 6 - 500 \times 2$$

$$a = 6 \times a - 1000$$

$$6 \times a - a = 1000$$

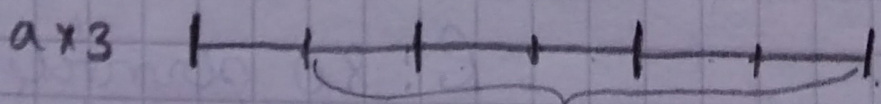
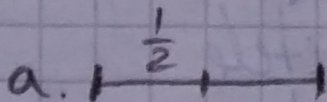
$$5 \times a = 1000$$

$$a = 1000 : 5 = 200$$

$a = 200$ lei suma pe care o am

sau

$$a \times 3 = 500 + a : 2$$



$$500 : 5 = 100 \text{ (un segment} = \frac{1}{2} \text{ din } a)$$

$$a = 100 \times 2 = 200 \text{ lei suma pe care o am}$$

R: 200 lei

16/87' a = colectia de servetele

$$a \times 2 = 128 + 2 \times (a : 5)$$

$$a \times 2 - 128 = 2 \times (a : 5)$$

$$(a \times 2 - 128) : 2 = a : 5$$

$$a - 64 = a : 5$$

$$(a - 64) \times 5 = a$$

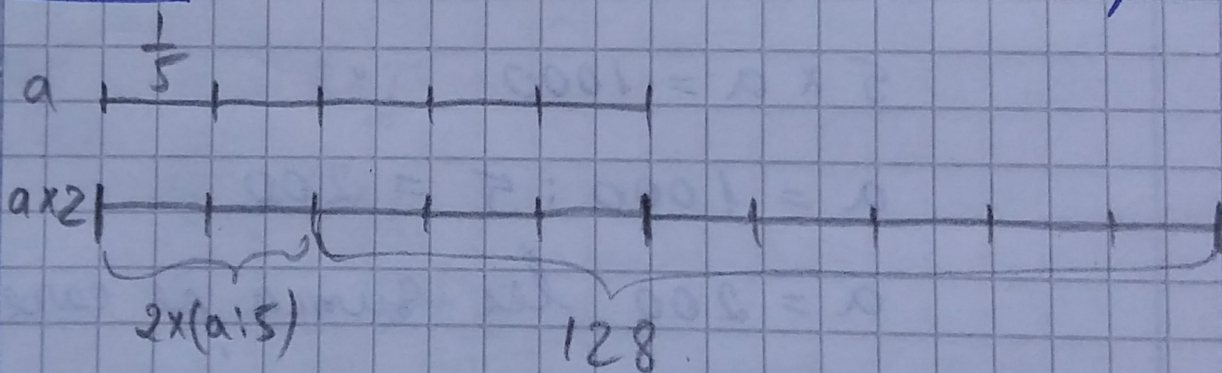
$$a = 5 \times a - 64 \times 5$$

$$5 \times a - a = 320$$

$$4 \times a = 320 \Rightarrow a = 320 : 4 = 80$$

sau

servetele



$$128 : 8 = 16 \text{ (un segment)}$$

$$a = 16 \times 5 = 80 \text{ servetele}$$

R: 80 servetele