

$$1) x + y = 462$$

$$x = y + 112$$

$$x, y = ?$$

$$\begin{array}{r} x + \quad \quad \quad + 112 + \\ y + \quad \quad \quad + \\ \hline \end{array} \left. \vphantom{\begin{array}{r} x + \quad \quad \quad + 112 + \\ y + \quad \quad \quad + \end{array}} \right\} 462$$

$$462 - 112 = 350 \text{ (2 segmente egale)}$$

$$350 : 2 = 175 \text{ (1 segment, adică este valoarea lui } y)$$

$$y = 175$$

$$x = 175 + 112 = 287$$

$$\text{Proba: } 287 + 175 = 462$$

x = primul număr
 y = al 2-lea număr

$$2. a + g = 412$$

$$a = g - 114 \Rightarrow g = a + 114$$

$$a, g = ?$$

$$\begin{array}{r} a + \quad \quad \quad + \\ g + \quad \quad \quad + 114 + \\ \hline \end{array} \left. \vphantom{\begin{array}{r} a + \quad \quad \quad + \\ g + \quad \quad \quad + 114 + \end{array}} \right\} 412$$

$$412 - 114 = 298 \text{ (2 părți egale)}$$

$$a = 298 : 2 = 149 \text{ (o parte egală) porumbel alb}$$

$$g = 149 + 114 = 263 \text{ porumbel gri}$$

a = porumbel alb

g = porumbel gri

$$3. a + b = 1243$$

$$a = b + 247$$

$$a, b = ?$$

$$\begin{array}{r} a + \quad \quad \quad + 247 + \\ b + \quad \quad \quad + \\ \hline \end{array} \left. \vphantom{\begin{array}{r} a + \quad \quad \quad + 247 + \\ b + \quad \quad \quad + \end{array}} \right\} 1243$$

$$1243 - 247 = 996 \text{ (2 segmente egale)}$$

$$996 : 2 = 498 \text{ (un segment egal) al 2-lea bloc}$$

$$498 + 247 = 745 \text{ p. locuitor în primul bloc}$$

a = primul bloc

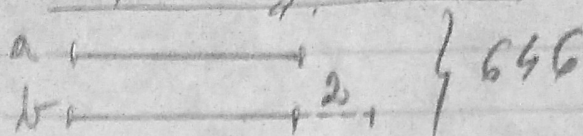
b = al 2-lea bloc

$p.$ = persoane

$$4. \quad a + b = 646$$

$$b = a + 2$$

$$\underline{a, b = ?}$$



$$646 - 2 = 644 \quad (\text{două segmente egale})$$

$$644 : 2 = 322 \quad \text{este primul număr}$$

$$b = 322 + 2 = 324 \quad \text{al } \underline{ii}\text{-lea număr}$$

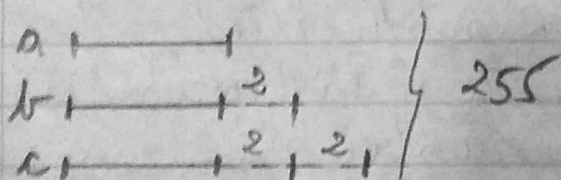
(Problema este pusă în alegere: nu are cum să dea „sumă a două numere consecutive” un număr par, mereu dă un număr impar. Exemplu: $4 + 5 = 9$, $267 + 268 = 535$...)

$$5. \quad a + b + c = 255$$

$$b = a + 2$$

$$c = b + 2 = a + 2 + 2 = a + 4$$

$$\underline{a, b, c = ?}$$



$$255 - (2 + 2 + 2) = 255 - 6 = 249 \quad (3 \text{ segmente egale})$$

$$249 : 3 = 83 \quad (\text{primul număr, adică } a)$$

$$b = 83 + 2 = 85$$

$$c = 85 + 2 = 87$$

$$\text{Proba: } 83 + 85 + 87 = 255$$

$$6. \underline{I} + \underline{II} + \underline{III} = 4537 \text{ t cereale}$$

$$\underline{I} = \text{grâu}$$

$$\underline{II} = \text{porumb}$$

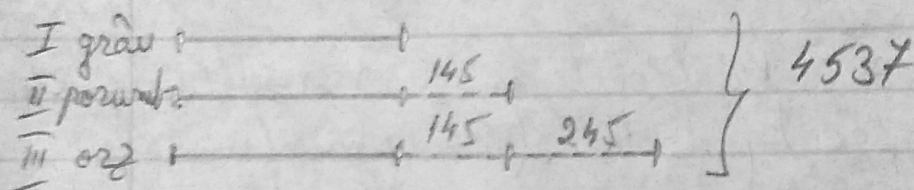
$$\underline{III} = \text{orz}$$

$$\underline{II} = 145 + \underline{I}$$

$$\underline{II} = \underline{III} - 245 \Rightarrow \underline{III} = \underline{II} + 245$$

$$\underline{I}, \underline{II}, \underline{III} = ?$$

||.



$$4537 - (145 + 145 + 245) = 4537 - 535 = 4002$$

(3 segmente egale)

$$4002 : 3 = 1334 \text{ (grâu)}$$

$$1334 + 145 = 1479 \text{ (porumb)}$$

$$1479 + 245 = 1724 \text{ (orz)}$$

$$\text{Proba: } 1334 + 1479 + 1724 = 4537$$

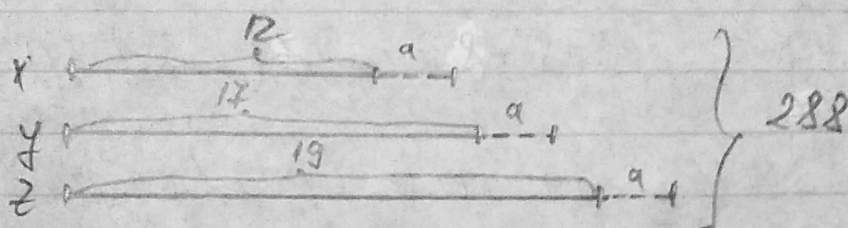
$$7) \quad x + y + z = 288$$

$$x - a = 12 \Rightarrow x = 12 + a$$

$$y - a = 17 \Rightarrow y = 17 + a$$

$$z - a = 19 \Rightarrow z = 19 + a$$

$$x, y, z = ?$$



$$288 - (12 + 17 + 19) = 288 - 48 = 240 \text{ (3 părți egale)}$$

$$3a = 240$$

$$a = 240 : 3 = 80 \text{ (o parte egală)}$$

$$x = 12 + 80 = 92$$

$$y = 17 + 80 = 97$$

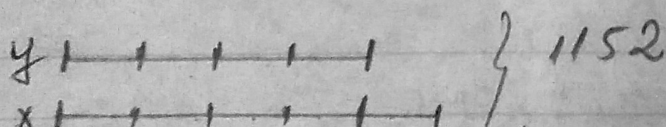
$$z = 19 + 80 = 99$$

$$\text{Proba: } 92 + 97 + 99 = 288$$

$$8) \quad x + y = 1152$$

$$x - y = \frac{1}{4} \cdot y \Rightarrow x = \frac{1}{4} \cdot y + y$$

$$x, y = ?$$



avem 9 părți egale

$$1152 : 9 = 128 \text{ (o parte egală)}$$

$$x = 5 \times 128 = 640$$

$$y = 4 \times 128 = 512$$

$$\text{Proba: } 640 + 512 = 1152$$

$$9) \quad x + y + z = 4305$$

$$y = x + 2$$

$$z = y + 2 = x + 2 + 2 = x + 4$$

$$x, y, z = ?$$

$$\begin{array}{l} x \text{ |-----| } \\ y \text{ |-----|-----| } \\ z \text{ |-----|-----|-----| } \end{array} \left. \vphantom{\begin{array}{l} x \\ y \\ z \end{array}} \right\} 4305$$

$$4305 - (2 + 2 + 2) = 4305 - 6 = 4299 \text{ (3 p\text{ar}ti egali)}$$

$$3 \times a = 4299$$

$$a = 4299 : 3 = 1433 \text{ (}\sigma \text{ parte egal\text{a})}$$

$$x = a = 1433$$

$$y = 1433 + 2 = 1435$$

$$z = 1435 + 2 = 1437$$

$$\text{Proba: } 1433 + 1435 + 1437 = 4305$$

$$10) \quad \begin{array}{l} x + y = 950 \text{ case} \\ x = y + 46 \text{ case} \end{array}$$

$$x, y = ?$$

$$\begin{array}{l} y \text{ |-----| } \\ x \text{ |-----|-----| } \end{array} \left. \vphantom{\begin{array}{l} y \\ x \end{array}} \right\} 950.$$

$$950 - 46 = 904 \text{ (2 segmente egale)}$$

$$904 : 2 = 452 \text{ (un segment egal)}$$

$$y = 452 \text{ case}$$

$$x = 452 + 46 = 498 \text{ case}$$

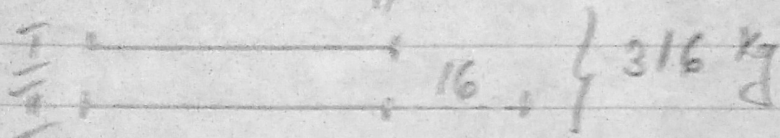
$$\text{Proba: } 498 + 452 = 950 \text{ case}$$

$$11) \quad 120 \text{ Kg unt} + 196 \text{ Kg caseanral} = 316 \text{ Kg lactate}$$

$$\underline{I} + \underline{II} = 316 \text{ Kg lactate}$$

$$\underline{II} = \underline{I} + 16 \text{ Kg lactate}$$

$$\underline{I}, \underline{II} = ?$$



$$120 + 196 = 316 \text{ Kg lactate s-au r\^andut \u00een 2 zile}$$

$$316 - 16 = 300 \text{ Kg lactate (2 segmente egale)}$$

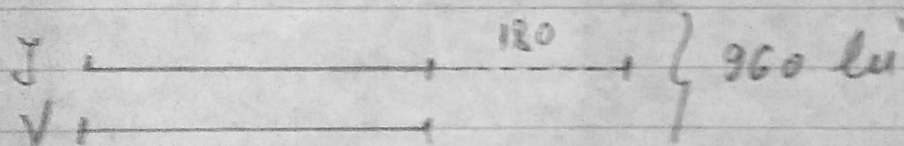
$$\underline{I} = 300 : 2 = 150 \text{ Kg lactate s-au r\^andut \u00een prima zi}$$

$$\underline{II} = 150 + 16 = 166 \text{ Kg lactate s-au r\^andut \u00een a doua zi}$$

$$12. \quad J + V = 960 \text{ lei}$$

$$\underline{J} - 180 = V \Rightarrow \underline{J} = V + 180$$

$$\underline{J}, \underline{V} = ? \text{ lei}$$



$$960 - 180 = 780 \text{ lei (2 segmente egale)}$$

$$780 : 2 = 390 \text{ lei are Vasilica}$$

$$390 + 180 = 570 \text{ lei are Ionel}$$

$$\text{Proba : } 390 + 570 = 960 \text{ lei}$$