

nr 14 p 145 (7u)      nr 13 p 59 (5u)

$x$  = aantal rode muntjes  
 $y$  = " gele "  
 $z$  = " groene "  
 $u$  = " blauwe "

$$\begin{cases} x + 2y = z \\ 4x + z = 4y \\ y + z = 8x + u \end{cases}$$

$$\begin{cases} x + 2y - z = 0 \\ 4x - 4y + z = 0 \\ -8x + y + z - u = 0 \end{cases}$$

$$\left[ \begin{array}{cccc|c} 1 & 2 & -1 & 0 & 0 \\ 4 & -4 & 1 & 0 & 0 \\ -8 & 1 & 1 & -1 & 0 \end{array} \right] \Rightarrow \left[ \begin{array}{cccc|c} 1 & 0 & 0 & -2 & 1 & 0 \\ 0 & 1 & 0 & -5 & 1 & 0 \\ 0 & 0 & 1 & -12 & 1 & 0 \end{array} \right]$$

$$\begin{cases} x = 2u \\ y = 5u \\ z = 12u \end{cases}$$

Antw      1 rood is 2 blauwe waard  
               1 geel is 5 " "  
               1 groen is 12 " "

nr 15 p 145 (7u)      en      nr 14 p 59 (5u)

$\begin{cases} x = \text{geld speler 1} \\ y = \text{" " 2} \\ z = \text{" " 3} \end{cases}$

We weten nog niet wie,  
 wie is  
 ze spelen 3 spellen

Begin

	$x$	$y$	$z$
$x$ verliest	$x - y - z$	$2y$	$2z$
$y$ verliest	$2(x - y - z)$	$2y - (x - y - z) - 2z$ $= -x + 3y - z$	$4z$
$z$ verliest	$4(x - y - z)$	$2(-x + 3y - z)$	$4z - (2x - 2y - 2z) - (-x + 3y - z)$ $= -x - y + 7z$

  

$$\begin{cases} 4x - 4y - 4z = 12 \\ -2x + 6y - 2z = 12 \\ -x - y + 7z = 12 \end{cases} \xrightarrow{\text{RREF}} \begin{cases} x = 19,5 \\ y = 10,5 \\ z = 6 \end{cases}$$

Antw : Lukas bezat 6 euro, Weetse 19,5 euro  
 en Sofie 10,5 euro