ZASTOSOWANIE UKŁADÓW RÓWNAŃ

Friday, 25 February 2022 9:06 AM

zadanie 5.48

$$y + 120 = x$$

$$\frac{(y+120)}{y} = 6$$

$$y + 120 = 6y$$

$$120 = 5y$$

$$24 = y \quad \text{czyli} \quad y + 120 = x \Rightarrow 24 + 120 = 144 = x$$

zadanie 5.51

x, y to te liczby

$$x + y = 800 \qquad y = 800 - x$$

$$1{,}25x + 0{,}8y = 748$$

$$1{,}25x + 0{,}8(800 - x) = 748$$

$$1{,}25x + 640 - 0{,}8x = 748$$

$$0{,}45x + 640 = 748$$

$$0{,}45x = 108$$

$$45x = 10800$$

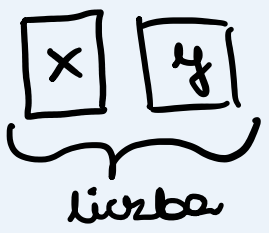
$$x = 240$$

$$x + y = 800$$

$$240 + y = 800$$

$$y = 560$$

zadanie 5.54



$10x + y$ — szukana liczba

$10y + x$ — liczba z przestawionymi cyframi

I. $10x + y = 21(x - y)$

$10\left(\frac{7}{2}y - 6\right) + y = 21\left[\left(\frac{7}{2}y - 6\right) - y\right]$

$\frac{70}{2}y - 60 + y = \frac{147}{2}y - 126 - 21y$

$70y - 120 + 2y = 147y - 252 - 42y$

$72y - 120 = 105y - 252$

$72y + 132 = 105y$

$132 = 33y$

$4 = y$

podstawiam →

$10x + y = 21(x - y)$

$10x + 4 = 21(x - 4)$

$10x + 4 = 21x - 84$

$88 = 11x$

$8 = x$

II. nowa liczba

$(10y + x) - 12 = 3(x + y)$

$10y + x - 12 = 3x + 3y$

$7y + x - 12 = 3x$

$7y - 12 = 2x$

$\frac{7}{2}y - 6 = x$

podstawiam ↑