

Ficha Kaz

$$\begin{aligned} ① \quad 3z - 4y &= 47 \\ 3z &= 47 + 4y \\ z &= \frac{47 + 4y}{3} \end{aligned}$$

$$\begin{aligned} 71z &= 6y + 47 \\ 71\left(\frac{47 + 4y}{3}\right) &= -6y + 47 \\ \frac{457 + 44y}{3} &= -6y + 47 \\ 457 + 44y &= -18y + 141 \\ 44y + 18y &= 141 - 457 \\ 62y &= -316 \\ y &= -5 \end{aligned}$$

$$\begin{aligned} ② \quad 6t - 5m &= 9 \\ 6t &= 5m + 9 \\ t &= \frac{5m + 9}{6} \\ t &= 5/6m - \frac{3}{2} \\ 4/6m - \frac{3}{2} & \\ 4(5/6m - 3/2) + 3m &= 13 \\ \frac{10}{3}m - 6 &= 13 \\ \frac{10}{3}m &= 19 \\ \boxed{m=3} \end{aligned}$$

$$\begin{aligned} 4t - 13 &= 3m \\ 4t &= 5/6 \times 3 - 3/2 \\ t &= \frac{5 \cdot 3}{2} \\ t &= 7 \end{aligned}$$

$$\begin{aligned} ③ \quad 4a + 7b &= 25 \\ 4a + 2b &= 18 \\ 4a + 2b &= 18 \\ a &= 3 + 1/2b \\ 4(3 + 1/2b) + 7b &= 25 \\ \boxed{a=3} \end{aligned}$$

$$\begin{aligned} ④ \quad 6y &= 27 - x \\ 6y + x &= 27 \\ x &= 27 - 6y \\ y &= 1/6(27 - x) \\ y &= 9/2 - x/6 \end{aligned}$$

$$\begin{aligned} ③ \quad 4a + 7b &= 25 \\ 4a + 2b &= 18 \\ 4a + 2b &= 18 \\ a &= 3 + 1/2b \\ 4(3 + 1/2b) + 7b &= 25 \\ a &= -3 + 1/2b \\ \boxed{a=3} \end{aligned}$$

$$\begin{aligned} ④ \quad 4a + 7b &= 25 \\ 4a + 2b &= 18 \\ a &= 3 + 1/2b \\ 4(3 + 1/2b) + 7b &= 25 \\ 12 + 2b + 7b &= 25 \\ 9b &= 13 \\ \boxed{b=2} \end{aligned}$$

$$\begin{aligned} ④ \quad 6y &= 27 - x \\ 6y + x &= 27 \\ x &= 27 - 6y \\ x &= -1/6x + 9/2 \\ x &= -1 + 9/2 \\ \boxed{x=4} \end{aligned}$$

$$\begin{aligned} 7x - 3y &= 9 \\ -3(-1/6x + 9/2) + 7x &= 9 \\ \frac{15}{2}x - \frac{27}{2} &= 9 \\ 15/2x + 45/2 &= 9 \\ \boxed{x=9} \end{aligned}$$

$$\begin{aligned} ⑤ \quad 3x - 2y &= 2 \\ 3x &= 2 + 2 \\ x &= 1/3(2y + 2) \\ 5(2/3 + 2/3) + 8y &= 60 \\ \frac{10}{3} + \frac{16}{3} + 8y &= 60 \\ 24y/3 &= \frac{170}{3} \\ \boxed{y=5} \end{aligned}$$

$$\begin{aligned} 5x + 6y &= -97 \\ 5x + 8y &= 60 \\ 2(3 - 5) &= 2/3 \\ x &= \frac{-10 - 2}{3} \\ \boxed{x=-4} \end{aligned}$$

$$\begin{aligned} ⑥ \quad 5y + 3x &= 7 \\ 5y &= -3x + 7 \\ y &= -3/5x + 7/5 \\ 3/5x - 7/5 + 2x &= 4 \\ \frac{13}{5}x &= \frac{13}{5} \\ \boxed{x=1} \end{aligned}$$

$$\begin{aligned} x - y/2 &= -2 \\ 2x - y &= -4 \\ y &= -\frac{2}{5}(-7) + 7/5 \\ y &= 3 + 7/5 \\ \boxed{y=2} \end{aligned}$$