



# Timester Challenge

## Simultaneous Equations - Substitution



Solve for  $a$  and  $b$

$$\begin{aligned}2a + b &= 5 \\ a + 3b &= 5\end{aligned}$$

Bronze 

Solve for  $a$  and  $b$

$$\begin{aligned}2a &= 4 + b \\ 6a - 5b &= 18\end{aligned}$$

Silver 

Solve for  $x$  and  $y$

$$\begin{aligned}y &= x^2 - 1 \\ y &= 5 - x\end{aligned}$$

Solve for  $a$  and  $b$

$$\begin{aligned}3a + b &= 10 \\ a - b &= 2\end{aligned}$$

Bronze 

Solve for  $a$  and  $b$

$$\begin{aligned}2b + 3a - 13 &= 0 \\ a + 5b - 13 &= 0\end{aligned}$$

Silver 

Gold 