

Mathematics

Downloadable resource - Checking the solution of simultaneous equations

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Try this

$$2x + y = 8$$

What could the values of x and y be?

Note: they don't have to be integers



Connect

Who is correct?



Zaki says that the solution to these simultaneous equations is $x = 6$ and $y = 1$



Yasmin says that the solution to these simultaneous equations is $x = 3$ and $y = 2$

$$\begin{aligned} 2x + 6y &= 18 \\ 2x + y &= 8 \end{aligned}$$



Independent task

The solution for some of these pairs of simultaneous equations is $x = 2$ and $y = 3$. Which ones?

$$\begin{aligned}3x &= 21 - 5y \\ x &= 5 - y\end{aligned}$$

$$\begin{aligned}3x - 7y &= 23 \\ y &= 4 - x\end{aligned}$$

$$\begin{aligned}x + y &= 5 \\ 7x + 5y &= 22\end{aligned}$$

$$\begin{aligned}2x + 3y &= 13 \\ 3y - 2x &= 5\end{aligned}$$



Explore

Create 3 pairs of simultaneous equations which have the solution $x = 2$ and $y = 5$.

What was your strategy?

