Mathematics

Downloadable resource - Checking the solution of simultaneous equations





Try this

$$2x + y = 8$$

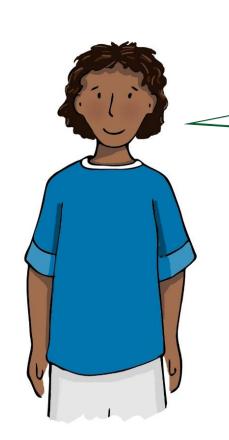
What could the values of x and y be?

Note: they don't have to be integers



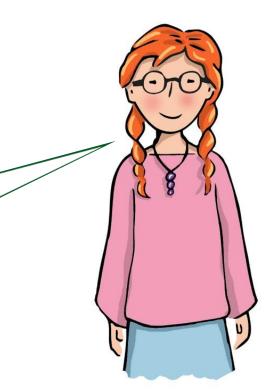
Connect

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



$$2x + 6y = 18$$
$$2x + y = 8$$



Independent task

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

$$3x = 21 - 5y$$
$$x = 5 - y$$

$$3x - 7y = 23$$
$$y = 4 - x$$

$$x + y = 5$$
$$7x + 5y = 22$$

$$2x + 3y = 13$$
$$3y - 2x = 5$$



Explore

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

What was your strategy?

