Mathematics

Solving Linear Simultaneous Equations Graphically Linear relationships

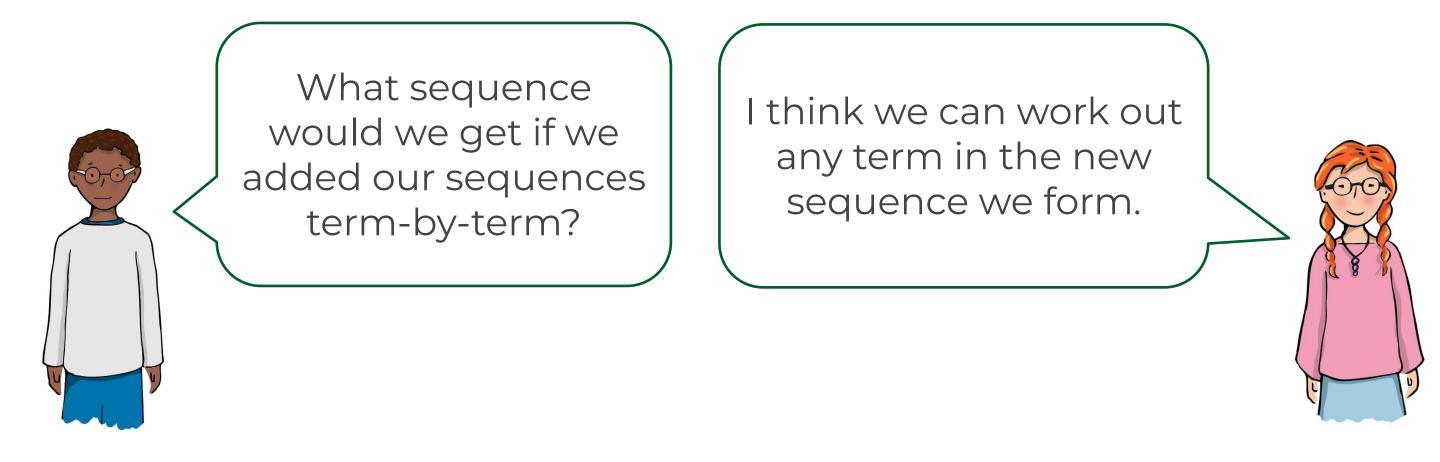
Independent Task

Ms Jones



Try this

Xavier and Yasmin have written number sequences.



Xavier: 11, 15, 19, 23, ...

Yasmin: -7, -1, 5, 11, ...

Use the answer to Xavier's question to explore Yasmin's statement.



Independent task

- 1. The first 5 terms of 2 sequences are:
- 3, 7, 11, 15, 19

- 8, 6, 4, 2, 0
- a) What is the 10th term of the sequence formed by adding these two sequences?
- b) What is the 20th term of the sequence formed by subtracting the second sequence from the first?
- 2. The nth term of 2 sequences are:

$$6n - 1$$
 $-8n + 4$

- a) What is the 10th term of the sequence formed by adding these two sequences?
- b) Decide if 4 will occur in the sequence formed by adding these sequences.



Explore

-9, -2, 5, 12, 19

Write three sequences that could be added together to form the sequence above, where:

- all three are ascending;
- two are ascending and one is descending;
- two are descending and one is ascending.

