

STEADY +2 GROWING PATTERN

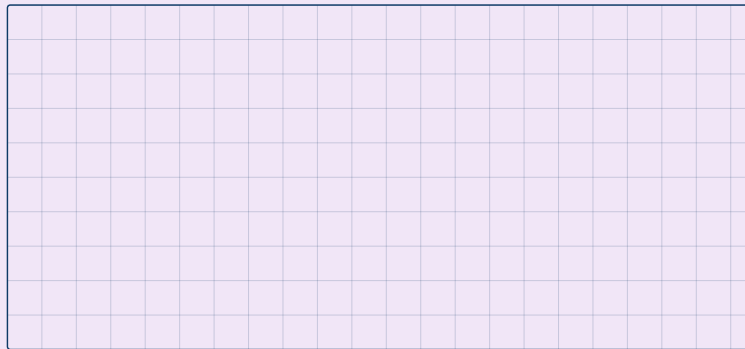
- 1 The terms already marked are 1, 3, 5, 7.
- 2 Each jump is the same: $3 - 1 = 2$, $5 - 3 = 2$, $7 - 5 = 2$, so the step is +2.
- 3 Add the same step twice more: $7 + 2 = 9$, then $9 + 2 = 11$.



WARM-UP

Use the squared space to work out and draw the block patterns from the practice.

Patterns



1. Write out 1, 3, 5, 7 and beside each new term add the next two terms of the staircase.
2. Draw block towers for 5, 10, 15, 20 and label the step you add each time.
3. List 20, 16, 12, 8 and continue the shrinking pattern for two more terms.

PRACTICE

- 1 Ana builds towers that grow by the same jump each time: 5, 10, 15, 20 blocks. Find the step and write the next two terms.
- 2 A triangle staircase adds one more block each time: 1, 3, 6, 10. The step grows by +2, +3, +4. Write the next two terms.

SPOT THE MISTAKE

Sean looks at the pattern 1, 3, 6, 10 and writes the next term as 13:

1, 3, 6, 10, 13

Jumps: +2, +3, +4, then +3 again

Sean is wrong. What is the correct next term, and why?

REFLECT

Was it easier to spot equal jumps or jumps that change each time? What helped?