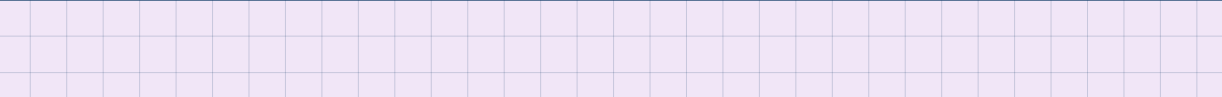


WRITING THE RULE FOR A GROWING BRICK PATTERN

- 1 Count bricks row by row: term 1 has **12**, term 2 has **24**, term 3 has **36**.
- 2 Notice each term adds **12** more bricks than the last.
- 3 Write the rule three ways: term n has 12 times n bricks.

 WARM-UP

Use the squared paper to draw and label your pattern hunt findings.



1. Draw the first four brick rows starting with 15 bricks then 30 then 45 on the squared paper.
2. Draw the first four window columns using 1, 2, 3 and 4 windows.
3. Write the position rule under each drawing using the numbers 15, 30, 45 and the column numbers.

 PRACTICE

- 1** The classroom fence shows a repeating tall-short railing pattern where term **1** is tall and term **2** is short.

What is term 4?

- 2 The window grid has column 1 with 1 window and column 2 with 2 windows.

What is term 3?

- 3 The brick wall has rows with 12 bricks, then 24 bricks, then 36 bricks.

What is term 6?

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. A repeating pattern comes back to the same item after a fixed number of terms.
- b. A growing pattern rule can be written using multiplication by the term number n .
- c. A pattern you find around the school is a growing pattern.
- d. The words 'term n ' on their own tell you the rule of a pattern.