

Counting patterns and multiples on the hundred square

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES

ALGEBRA

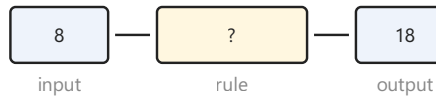
HOW TO ANSWER TODAY

- **Find the rule.** Look at how each input changes to its output. Try $\times$ first, then $+$ or $-$.

$3 \rightarrow 6$, $5 \rightarrow 10$, $7 \rightarrow 14 \rightarrow$ rule is $\times 2$

STRETCH PROBLEMS

1



Sean and his friends play a soccer match in the schoolyard at lunchtime. Each team starts with **10** bonus points before the match begins, then adds the goals they score. The scoreboard shows: **8** goals $\rightarrow$ **18** points, **3** goals $\rightarrow$ **13** points, **7** goals $\rightarrow$ **17** points. What is the rule that turns the number of goals into the team's points?

- 2 At the Cumann na mBunscol blitz, 3rd class are counting how many supporters arrive at the county grounds each ten minutes. The first four counts are **5**, **15**, **25**, **35**. If the pattern continues, how many supporters arrive in the next ten minutes?

What comes next in the sequence: 5, 15, 25, 35, ____?