

Patterns and rules investigation

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES

ALGEBRA

HOW TO ANSWER TODAY

- **Solve for x.** Do the OPPOSITE operation to both sides. + becomes -; $\times$ becomes $\div$.
 $x + 7 = 15 \rightarrow x = 15 - 7 = 8$ · $3x = 21 \rightarrow x = 21 \div 3 = 7$
- **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 $\times 2$



x y



x y



x y

