

Tables of values: input → output

MODULE 8 · ALGEBRA — PATTERNS, EXPRESSIONS AND EQUATIONS

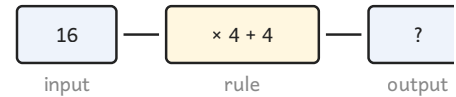
ALGEBRA

HOW TO ANSWER TODAY

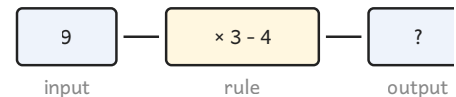
- **Function machine.** Do EACH step of the rule in order to the input.

★ STRETCH PROBLEMS

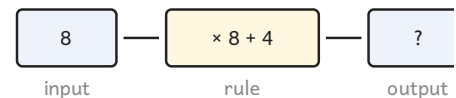
- 1 At break time, Tadhg shares biscuits using a rule: multiply the number of pupils by 4, then add 4 extra biscuits for the teachers. If 16 pupils are in the group today, how many biscuits does he need in total?



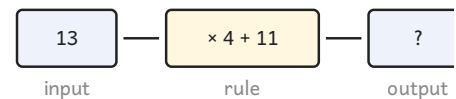
- 2 On the 5th class school tour to Glendalough, Saoirse puts 9 into a function machine with the rule $\times 3 - 4$. What is the output?



- 3 Cara lines up at the door before going to the yard. Her teacher sets a function machine with the rule $\times 8 + 4$. If the input is 8, what is the output?



- 4 On the 5th class nature walk through the local park, Oisín spots a rule on a worksheet from his teacher: multiply the number of trees in each row by 4, then add 11 birds resting nearby. If one row has 13 trees, what number does the rule give?



- 5 Cian and his sister Saoirse use a number machine to work out how to split their pocket money fairly. The rule is: multiply by 7, then subtract 4. Cian puts in the number 19. What number comes out?

