

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.

Rule $\times 4 + 2$, input 5 $\rightarrow 5 \times 4 = 20, + 2 = 22$

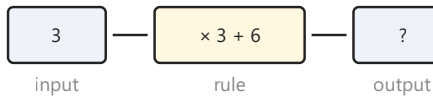
STRETCH PROBLEMS

1



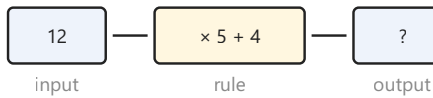
Cian and his sister Saoirse use a number machine to work out how to split their pocket money fairly. The rule is: multiply by **7**, then subtract **4**. Cian puts in the number **19**. What number comes out?

2



Cian and his friends play a lunchtime soccer match in the schoolyard. They score **3** goals using a rule for points: multiply the goals by **3**, then add **6** bonus points for fair play. How many points do they get in total?

3



Aoife's granny is baking barmbrack for the Halloween weekend. Each loaf needs **5** spoons of sultanas plus **4** extra spoons for the topping. If she bakes **12** loaves, how many spoons of sultanas does she use altogether?