

Properties of operations – order and inverse links

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES

ALGEBRA

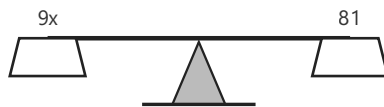
HOW TO ANSWER TODAY

- Solve for x.** Do the OPPOSITE operation to both sides. + becomes −; × becomes ÷.

$$x + 7 = 15 \rightarrow x = 15 - 7 = 8 \quad 3x = 21 \rightarrow x = 21 \div 3 = 7$$

STRETCH PROBLEMS

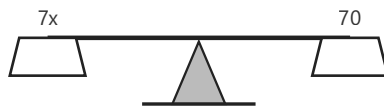
1



Find x so the scale balances.

Mr Ó Briain pins up **81** homework stickers on the classroom noticeboard, arranged in **9** equal rows with x stickers in each row. Solve $9x = \mathbf{81}$ to find how many stickers are in each row.

2



Find x so the scale balances.

Cian and his sister save the same amount of pocket money each week for **7** weeks. Together they have saved **€70** in total, so $7x = \mathbf{70}$, where x is the amount saved each week. What is the value of x?