

Solving one-step equations

MODULE 10 · ALGEBRA — PATTERNS, EXPRESSIONS AND EQUATIONS

ALGEBRA

HOW TO ANSWER TODAY

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

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

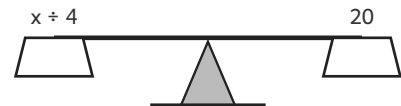
★ STRETCH PROBLEMS

- 1 Fionn's family shared a barmbrack over the Halloween weekend. After 5 slices were eaten, 23 slices remained. How many slices were there to begin with?



Find x so the scale balances.

- 2 At Aoife's sleepover the biscuits are shared equally among 4 friends. Each friend gets 20 biscuits. How many biscuits are there in total?



Find x so the scale balances.

- 3 Aoife is pinning stickers onto the class noticeboard. The stickers are shared equally across 10 homework charts, with 25 stickers on each chart. How many stickers are there in total?



Find x so the scale balances.

- 4 Cian counts the books on the class library shelves. After 8 returned books are put back, there are 35 books in total. How many books were on the shelves before the returns were added?



Find x so the scale balances.

- 5 Cian brings some pieces of bread to feed the ducks at the local pond. He shares them equally between 12 ducks and each duck gets 7 pieces. How many pieces of bread did he bring in total?



Find x so the scale balances.