Solving one-step equations

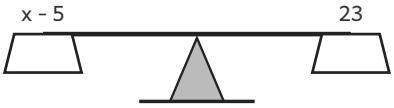
MODULE 10 · ALGEBRA — PATTERNS, EXPRESSIONS AND EQUATIONS ALGEBRA

HOW TO ANSWER TODAY

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

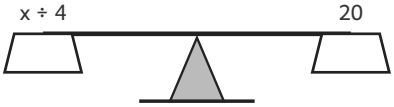
STRETCH PROBLEMS

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?



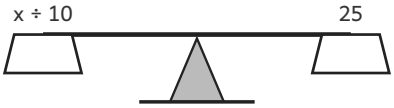
Find x so the scale balances.

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?



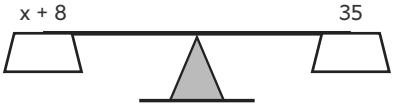
Find x so the scale balances.

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?



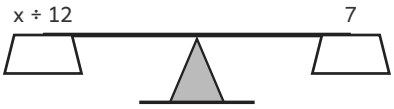
Find x so the scale balances.

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.