

Solving two-step equations

MODULE 10 · ALGEBRA — PATTERNS, EXPRESSIONS AND EQUATIONS ALGEBRA

HOW TO ANSWER TODAY

- **Solve in two steps.** Undo the + or – first, then undo the × or ÷.

$$2x + 5 = 13 \rightarrow 2x = 8 \rightarrow x = 4$$

★ STRETCH PROBLEMS

- 1 Oisín's 6th class is booking a coach trip to the Burren. The 9 pupils in his group each put the same amount into a trip kitty. After €25 from the kitty is paid as the booking deposit, €65 is left. How much did each pupil put in?



Find x so the scale balances.

- 2 Tadhg is tidying the class library. There are 9 shelves with the same number of books on each shelf, and 7 extra books on the reading table. Altogether there are 115 books. How many books are on each shelf?



Find x so the scale balances.

- 3 Tadhg is sorting pencils from the classroom store. He fills 4 identical packs with the same number of pencils in each, then adds 15 loose pencils, and has 51 pencils in total. How many pencils are in each pack?



Find x so the scale balances.

- 4 Aoife helps set up for Camogie training under the floodlights. She lays out 4 equal groups of sliotars and then adds 6 more. There are 46 sliotars altogether. How many sliotars are in each group?



Find x so the scale balances.

- 5 Aoife is helping in the photocopier room for tomorrow. She has made 9 equal bundles of worksheets plus 20 spare sheets, and there are 146 worksheets in total. How many worksheets are in each bundle?



Find x so the scale balances.