

Order of operations with brackets

MODULE 2 · OPERATIONS AND COMPUTATIONAL FLUENCY NUMBER

HOW TO ANSWER TODAY

- **Order of operations.** Brackets first, then $\times$ and $\div$, then $+$ and $-$. Inside each group, work LEFT to RIGHT.

$$3 + 2 \times 5 \rightarrow 3 + 10 = 13 \cdot (4 + 2) \times 3 \rightarrow 6 \times 3 = 18$$

★ STRETCH PROBLEMS

- 1 At break time, Tadhg opens a new pack of 5 biscuits and adds 10 more from a tin. He then shares them evenly between 10 pupils, minus the 7 who already had a snack. How many biscuits does each pupil get, working out $(5 + 10) \times (10 - 7)$?
- 2 On the 5th class nature walk through the local park, Cian counts 11 oak trees and 7 of them have acorns underneath. Each of the remaining oak trees without acorns has 12 birds perched in its branches. How many birds does Cian count in total, working out $12 \times (11 - 7)$?
- 3 For an autumn art lesson, Oisín gathers 9 leaves from each of the 9 trees beside the school yard, but 4 of the leaves from each tree are too torn to use. How many usable leaves does he have, worked out as $9 \times (9 - 4)$?
- 4 Aoife has 55 autumn leaves saved in her art folder. She gathers 7 more bunches in the school yard, with 9 leaves in each bunch, but 2 leaves get torn and thrown away. How many usable leaves does she have for the art lesson?
- 5 5th class are heading to the Cliffs of Moher on a school tour. There are 66 pupils already on the coach, plus 9 rows of 9 seats filled by pupils from another school joining them, but 4 pupils have to stay back at the visitor centre. How many pupils are on the cliff walk in total?