

Equivalent ratios and simplifying ratios

MODULE 4 · RATIO AND PROPORTION NUMBER

HOW TO ANSWER TODAY

- **Lowest terms.** Divide top and bottom by the same number until you can't go any further.
 $12/18 \div 6 \rightarrow 2/3$
- **Share in a ratio.** Add the ratio parts. Divide the total by that number to find ONE part. Multiply each ratio number by it.
 Share €90 in 2:3 \rightarrow 5 parts, $\text{€}90 \div 5 = \text{€}18$ per part \rightarrow €36 and €54

STRETCH PROBLEMS

- Saoirse invites friends to a sleepover and lays out **20** biscuits on a tray. By bedtime, **15** of the **20** biscuits have been eaten. Write the fraction **15/20** in its lowest terms.
 Simplify 15/20 to lowest terms.
- 5th class are lining up at the door before going to the yard. **18** of the **24** pupils have remembered their hi-vis vests for the walk. Write the fraction **18/24** in its lowest terms.
 Simplify 18/24 to lowest terms.
- 5th class have **€120** to spend on decorations for World Book Day. They split the money between bunting, posters and book covers in the ratio **2:3:5**. How much do they spend on each?
 Share €120 in the ratio 2:3:5.
- Mr Ó Briain prints **30** maths worksheets in the photocopier room for 5th class tomorrow. **27** of the **30** worksheets are stapled and ready to go. Write the fraction **27/30** in its lowest terms.
 Simplify 27/30 to lowest terms.
- 5th class raise **€90** at the bake sale tray during break. They agree to share the money between the GAA club, the school garden and the book fund in the ratio **2:3:5**. How much does each group get?