

Ratio and proportion problem-solving

MODULE 4 · RATIO AND PROPORTION NUMBER

HOW TO ANSWER TODAY

- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
- **Share in a ratio.** Add the ratio parts. Divide the total by that number to find ONE part. Multiply each ratio number by it.
- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
20% of 50 $\rightarrow$ 10% of 50 = 5, $\times 2 = 10$

STRETCH PROBLEMS

- 1 Cian packs **21** bottles of water for the coach trip to the Burren in Clare. He shares **$\frac{2}{3}$** of them with his classmates. How many bottles does he give out?
What is $\frac{2}{3}$ of 21?
- 2 Cian brings **9** star stickers for the class noticeboard. He uses **$\frac{1}{3}$** of them to mark the homework charts. How many stickers does he use?
What is $\frac{1}{3}$ of 9?
- 3 Over the whole Cumann na mBunscol season, the 6th class team scores **120** points. The points are shared between the backs, midfielders and forwards in the ratio **2:3:5**. How many points does each group score?
- 4 Saoirse's 6th class are paying for cinema tickets on their class trip. The full price is **€140** and they get a **50%** school discount. How much do they pay?
- 5 Tadhg has **16** pieces of barmbrack ready for the Halloween party. He shares **$\frac{1}{2}$** of them with his cousins. How many pieces does he share?
What is $\frac{1}{2}$ of 16?