Module assessment — fraction shop

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

HOW TO ANSWER TODAY

- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
  3/5 of 20 → 20 ÷ 5 = 4, × 3 = 12
- **Lowest terms.** Divide top and bottom by the same number until you can't go any further.
  12/18 ÷ 6 → 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 → 5 parts, €90 ÷ 5 = €18 per part → €36 and €54

STRETCH PROBLEMS

1. There are **132** pupils in 5th and 6th class altogether at the school in Galway. On Monday morning the teachers note that **7/12** of the pupils have signed up for the Cumann na mBunscol blitz on Friday. How many pupils have signed up?

   What is 7/12 of 132?

2. 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.

3. 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.

4. 5th class raise **€100** at the school bake sale to put towards their class trip. They share the money between buns, brownies and rocky road in the ratio **2:3:5** to plan next week's bake. How much money goes to each item?

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.