

Module assessment – fraction shop

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

HOW TO ANSWER TODAY

- **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, $€90 \div 5 = €18$ per part → €36 and €54
- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
20% of 50 → 10% of 50 = 5, $\times 2 = 10$
- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
 $\frac{3}{5}$ of 20 → $20 \div 5 = 4$, $\times 3 = 12$

WARM-UP

- a. Share 28 in the ratio 1:3.
- b. Share 24 in the ratio 1:2.
- c. Share 56 in the ratio 3:4.
- d. Share 35 in the ratio 1:4.

PRACTICE

- 1 Saoirse and her cousins are buying a €900 garden swing for their grandad's birthday. Saoirse's family agree to pay 20% of the cost. How much does Saoirse's family pay?
What is 20% of 900?
- 2 48 pupils from 5th class travel to the Burren in Clare on a coach trip. $\frac{2}{3}$ of the pupils bring a packed lunch from home. How many pupils bring a packed lunch?
What is $\frac{2}{3}$ of 48?

CHALLENGE

- 1 5th class are making 95 sandwiches for their school picnic at the Cliffs of Moher. $\frac{3}{5}$ of the sandwiches are ham and cheese. How many ham and cheese sandwiches are there?
What is $\frac{3}{5}$ of 95?
- 2 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.

REFLECT

Where in real life do you see fractions, decimals or percents most?