

Finding a percentage of a quantity

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

HOW TO ANSWER TODAY

- **Discount / increase.** Work out the percent of the price, then take it off (discount) or add it on (increase).
 $\text{€}80 \text{ with } 15\% \text{ off} \rightarrow 15\% \text{ of } \text{€}80 = \text{€}12 \rightarrow \text{€}80 - \text{€}12 = \text{€}68$
- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
 $20\% \text{ of } 50 \rightarrow 10\% \text{ of } 50 = 5, \times 2 = 10$

STRETCH PROBLEMS

- 1 A new bird-feeder kit for the classroom window costs **€200** at the garden centre. Cian sees a sign saying all bird-feeder kits are reduced by **15%** this week. What is the new price?
- 2 **140** pupils from 5th class are going on the school tour to the Cliffs of Moher in Clare. **15%** of the pupils have chosen the guided walk along the cliff path. How many pupils have chosen the guided walk?
- 3 A picnic hamper for the 5th class trip costs **€180** at the local Centra deli. The shop gives the class a **15%** discount because they are ordering for a school event. What is the new price of the hamper?
- 4 The corner shop near the school has **620** lollipops in a big jar by the till. The shopkeeper says **20%** of them are strawberry flavour. How many strawberry lollipops are in the jar?
- 5 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?