

Calculating discounts, VAT and percentages of price

MODULE 6 · TIME AND MONEY MEASURES

HOW TO ANSWER TODAY

- **Sale price.** Find the discount (percent of price). Subtract from the original price.
 $\text{€}60, 20\% \text{ off} \rightarrow 20\% \text{ of } \text{€}60 = \text{€}12 \rightarrow \text{€}60 - \text{€}12 = \text{€}48$
- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
 $20\% \text{ of } 50 \rightarrow 10\% \text{ of } 50 = 5, \times 2 = 10$
- **Discount / increase.** Work out the percent of the price, then take it off (discount) or add it on (increase).
 $\text{€}80 \text{ with } 15\% \text{ off} \rightarrow 15\% \text{ of } \text{€}80 = \text{€}12 \rightarrow \text{€}80 - \text{€}12 = \text{€}68$

★ STRETCH PROBLEMS

- 1 Aoife's dad sees a winter jacket priced at **€481.99** in the local clothes shop. The jacket has a **12%** discount this week. What is the sale price?
- 2 Cara's mum finds a winter jacket in the local shop priced at **€266.99**. It has a **22%** discount in the January sale. What is the sale price of the jacket?
- 3 Saoirse wants to buy a winter jacket priced at **€245.00**. The shop is offering a **10%** discount in the sale. What is the sale price of the jacket?
- 4 6th class are planning a school tour to Glendalough in Wicklow. The trip costs **€300** and they must pay a **10%** deposit. How much is the deposit?
- 5 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?