

Class-shop modeling – designed by pupils

MODULE 9 · MATHEMATICAL MODELING AND END-OF-YEAR REVIEW REVIEW

HOW TO ANSWER TODAY

- **Discount / increase.** Work out the percent of the price, then take it off (discount) or add it on (increase).

$$€80 \text{ with } 15\% \text{ off} \rightarrow 15\% \text{ of } €80 = €12 \rightarrow €80 - €12 = €68$$

- **Sale price.** Find the discount (percent of price). Subtract from the original price.

$$€60, 20\% \text{ off} \rightarrow 20\% \text{ of } €60 = €12 \rightarrow €60 - €12 = €48$$

★ STRETCH PROBLEMS

1



5th class run a Christmas hamper raffle over two weeks. In the first week they take in **€716.77** and in the second week they take in **€480.12**. How much money have they raised in total?

- 2 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?

- 3 Saoirse and her cousins are pooling their money to buy Granda a winter jacket as a joint birthday present. The jacket is priced at **€453.99** in Dunnes Stores and has **35%** off in the sale. What is the sale price of the jacket?

A jacket costs €453.99 before a 35% discount. What is the sale price?

4



The Murphy family does two big shops at SuperValu in October. The first shop comes to **€612.31** and the second shop comes to **€606.28**. How much do they spend on groceries in total that month?

- 5 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?

€180 is reduced by 15%. What is the new price?