

Ratio, proportion and percentage links

MODULE 4 · RATIO AND PROPORTION NUMBER

HOW TO ANSWER TODAY

- **Discount / increase.** Work out the percent of the price, then take it off (discount) or add it on (increase).
 $\text{€80 with 15\% off} \rightarrow 15\% \text{ of } \text{€80} = \text{€12} \rightarrow \text{€80} - \text{€12} = \text{€68}$
- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
 $20\% \text{ of } 50 \rightarrow 10\% \text{ of } 50 = 5, \times 2 = 10$
- **Share in a ratio.** Add the ratio parts. Divide the total by that number to find ONE part. Multiply each ratio number by it.

★ STRETCH PROBLEMS

- 1 The cinema admission for 6th class's trip costs **€80**. The price is increased by **5%**. What is the new amount?
- 2 6th class collect **940** autumn leaves from the school grounds for an art lesson. They use **10%** of the leaves to make leaf prints. How many leaves do they use for the prints?
- 3 Aoife and her friends in 6th class bake **49** cakes for a fundraising cake sale for the Junior Infants new playground. The cakes are split between chocolate and vanilla in the ratio **3:4**. How many of each flavour do they bake?
- 4 Saoirse goes to the cinema with her brother on Saturday. The big screen has **860** seats and **50%** of them are taken for the afternoon film. How many seats are taken?
- 5 Fionn and Méabh help pack apples at the local farmers' market on Saturday morning. They share **25** apples between two stalls in the ratio **2:3**. How many apples does each stall get?