

End-of-module challenge: the fraction shop

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

HOW TO ANSWER TODAY

- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
20% of 50 $\rightarrow$ 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).

★ STRETCH PROBLEMS

- 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?
- 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?
- The SuperValu near Niamh's school has **280** loaves of bread delivered on Monday morning. By lunchtime, **75%** of the loaves have been sold. How many loaves have been sold?
- Cian and his sister Saoirse get **€960** between them for minding their grandad's garden over the summer. They agree to split the money fairly, so Saoirse takes **50%** of the **€960**. How much does Saoirse get?
- 5th class have **80** library books to bring back to the school library across the term. On the school-bag rota, Tadhg agrees to carry **$\frac{1}{10}$** of the books in his schoolbag this week. How many books does Tadhg carry?
What is $\frac{1}{10}$ of 80?