

Fractions, decimals and percentages review

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

HOW TO ANSWER TODAY

- **Fraction · decimal · %.** Divide top by bottom to get a decimal. Multiply a decimal by 100 to get a percent. Write fractions in lowest terms.
 $1/4 = 0.25 = 25\%$ · $0.6 = 60\% = 3/5$
- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
 $3/5$ of 20 → $20 \div 5 = 4$, $\times 3 = 12$
- **Different-bottom fractions.** Bottoms different → make them the same first (common denominator). Then add or subtract the tops.
 $1/2 + 1/3 \rightarrow 3/6 + 2/6 = 5/6$

★ STRETCH PROBLEMS

- 1 In Mr Byrne's 5th class library, **0.75** of the books borrowed last week were returned by Friday. Write **0.75** as a fraction in its lowest terms and as a percentage.
- 2 5th class are making **95** sandwiches for their school picnic at the Cliffs of Moher. **$3/5$** of the sandwiches are ham and cheese. How many ham and cheese sandwiches are there?
 What is $3/5$ of 95?
- 3 Mr Ó Briain is stacking worksheet bundles in the photocopier room for tomorrow's lessons. He fills **$2/4$** of one paper tray with maths worksheets and **$8/9$** of a second tray with English worksheets. How much tray space has he filled in total?
- 4 On the school tour to the Cliffs of Moher, **75%** of 5th class bring a packed lunch from home. Write **75%** as a fraction in its lowest terms and as a decimal.
- 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?