

Expressing quantities in related place-value terms

MODULE 1 · PLACE VALUE, DECIMALS AND THE NUMBER SYSTEM NUMBER

HOW TO ANSWER TODAY

- **Decimal places.** Tenths is the first digit after the point, hundredths the second, thousandths the third.

In 4.82 the digit in the tenths place is 8. · In 0.345 the hundredths digit is 4.

★ STRETCH PROBLEMS

- 1 Ms Murphy marks the 5th class sprint times on a number line on the board before the pupils line up at the door for yard. Cian's time was **3.387 seconds** over the class average. Between which two whole numbers does **3.387** sit on the number line, and which whole number is it closer to?
- 2 At the sleepover, Cian works out that his sleeping bag, pillow and a packet of biscuits cost his mam **€3.428** in total before the till rounded to the nearest cent. On a number line, between which two whole euros does **3.428** sit, and which whole euro is it closer to?
- 3 Cian's 5th class are running a sponsored leaf-collection for an art lesson. Each pupil collects a small bag of autumn leaves weighing **19.094 g** on average, and **100** pupils across the school take part. What is the total mass of leaves collected in grams?
- 4 The school canteen records that one tray of lunches costs **€76.173** to prepare on the spreadsheet before rounding. The canteen manager needs to work out the cost of preparing **10** trays at that same rate. What is **76.173** × **10** ?
- 5 Ms Murphy's 5th class is making bunting for World Book Day. Each flag needs **74.76 cm** of ribbon, and the class is making **10** flags in total. How many centimetres of ribbon do they need altogether?