

Expressing quantities in related place-value terms

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

The same quantity can be written in **different units** using place value — regroup tens, hundreds and thousands.

U	t	h

→ 3.2 m = **320 cm** = **3200 mm**.

→ 1500 g = **1.5 kg**; €4.05 = **405 c**.

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.

WARM-UP

a. $1.9 \times 10 =$

b. $7.5 \times 10 =$

c. $0.3 \times 10 =$

d. $1.9 \times 10 =$

PRACTICE

- 5th class are making sandwich platters for the school picnic. Each platter costs **€95.22** in ingredients, and the class is preparing **10** platters for all the year groups. How much will the ingredients cost in total?
- The school tour to the Cliffs of Moher costs **€23.87** per pupil. **100** pupils from 5th and 6th class are going on the trip. What is the total cost for all the pupils?

CHALLENGE

- Cara's sleepover snack mix uses **19.422 kg** of mixed biscuits per batch at the bakery. The bakery is making **1000** batches for a big school sleepover fundraiser across the county. How many kilograms of biscuits are needed altogether?
- On the coach trip to the Burren, Cian's GPS app shows the bus has travelled **4.191 km** since the last stop. Between which two whole kilometres does **4.191** sit on the number line, and which whole kilometre is it closer to?