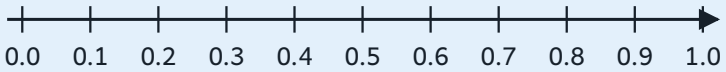
Decimals on the number line to thousandths

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

Any decimal has a spot on the number line. **Zoom in** by splitting each interval into ten to place tenths, hundredths and thousandths.



→ 0.62 sits between 0.6 and 0.7, two tenths-of-a-tenth past 0.6.
→ 0.305 sits just past the middle between 0.30 and 0.31.

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.
- **Compare or order.** Compare one place at a time, starting from the LEFT. Use < (less than), > (greater than), or = (equal).
  3.45 < 3.54 · Smallest → largest: 0.7, 0.71, 1.07

WARM-UP

a. In 1.3, which digit is in the tenths place

b. In 2.9, which digit is in the tenths place

c. In 6.9, which digit is in the tenths place

d. In 2.9, which digit is in the tenths place

PRACTICE

1. On the coach trip to the Burren, the teacher records the rainfall in millimetres at three stops along the way: **4.80 mm** at Ennis, **9.84 mm** at Lisdoonvarna and **7.32 mm** at the Burren visitor centre. Order the rainfalls from smallest to largest.

2. Three pupils in 5th class check how much they each spent at the SuperValu deli for the class picnic. Niamh spent **€9.40**, Aoife spent **€4.88** and Tadhg spent **€6.89**. Order the amounts from smallest to largest.

CHALLENGE

1. The school weather chart logs the rainfall on four wet days in October as **4.8 mm**, **2.963 mm**, **5.83 mm** and **8.404 mm**. Order the rainfalls from smallest to largest.

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?