

Decimals on a number line

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

A decimal number sits **between** two whole numbers on a number line. The tenths divide each whole into ten equal parts.

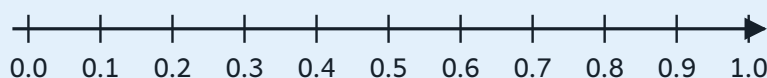
- **0.4** is just under halfway between 0 and 1.
- **1.7** sits seven-tenths of the way from 1 to 2.

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

TRY IT ON THE LINE

Mark each value on the number line with a small cross and label it with its letter.



1. Mark **A** at **0.3**.
2. Mark **B** at **0.7**.
3. Mark **C** at **0.45** (about halfway between two ticks).
4. Mark **D** at **0.85**.

PRACTICE

- 1 On the coach trip to the Burren, 5th class log the rainfall in millimetres on three different days of their nature project. The amounts recorded are **7.02 mm**, **1.83 mm** and **4.03 mm**. 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 logged the rainfall at the GAA pitch on four days last week as **9.40 mm**, **7.753 mm**, **6.89 mm** and **6.26 mm**. Order the rainfalls from smallest to largest.
- 2 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?