

Comparing and ordering decimals

MODULE 3 · FRACTIONS AND FIRST DECIMALS NUMBER

HOW TO ANSWER TODAY

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

★ STRETCH PROBLEMS

- 1 Cian and Aoife each measure how much rain fell in the school garden this week. Cian's gauge shows **4.8 mm** and Aoife's shows **9.84 mm**. Insert **<, > or =** to compare **4.8** and **9.84**.
- 2 On the library rainfall chart, the class notes that **9.48 mm** of rain fell on Tuesday. Write **9.48** in expanded form, showing the ones, tenths and hundredths parts.
- 3 On the school tour to the Cliffs of Moher, Oisín reads that the walking trail is **3.47 km** long. Write **3.47** in expanded form, with a part for the ones, the tenths and the hundredths.
- 4 On the classroom weather chart, Monday's rainfall was measured as **2.52 mm**. Write **2.52** in expanded form, showing the ones, tenths and hundredths parts.
- 5 Cian weighs two schoolbags on the classroom scales. The first bag weighs **7.02 kg** and the second bag weighs **1.83 kg**. Insert **<, > or =** between **7.02** and **1.83** to show which bag is heavier.

● INVESTIGATE

Fraction-decimal twins

List as many fraction-decimal **twins** as you can (for example $\frac{1}{2} = 0.5$ and $\frac{1}{4} = 0.25$). Order your decimals from smallest to largest. Which pairs were easy, and which made you stop and think — and why?
