Place-value investigation and review — biggest and smallest numbers

MODULE 1 · PLACE VALUE — WHOLE NUMBERS TO 1,000 AND ROUNDING 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.
- **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
- **Expanded form (decimals).** Write the decimal as a sum of its parts: ones, tenths, hundredths. Skip any part that is 0.
  4.52 = 4 + 0.5 + 0.02 · 0.07 = 0.07

TRY IT ON THE LINE

Set out each number from today's lesson in the place-value columns, then read it aloud.

Th	H	T	U

1. Write each number into the columns, one under the other.
2. Say the value of each digit (e.g. the 4 in 0 0 4 0 is four tens).
3. Make the largest and the smallest number you can from the same digits.

PRACTICE

1. Oisín uses **250** lollipop sticks to build his model bridge for STEM week. He wants to write the total on his poster rounded to the nearest **100**. What number should he write?
   Round 250 to the nearest 100.

2. Cian is line leader and his 4th-class line measures **5.71 m** long along the corridor wall before going to the yard. Write **5.71** in expanded form, showing the ones, tenths and hundredths parts.

CHALLENGE

1. At the cinema kiosk on the 4th class trip, a small popcorn costs **€1.30** and a bottle of water costs **€1.75**. Which one costs more?
   Which is more — €1.3 or €1.75?

2. At Camogie training under the floodlights, Aoife's coach times her sprint between two cones at **2.9 seconds**. In **2.9**, which digit is in the tenths place?