

Rounding whole numbers to estimate in context

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

HOW TO ANSWER TODAY

- **Round to nearest....** Look at the digit ONE place to the right of where you're rounding to. 5 or more → round up; less than 5 → keep.
7.34 to nearest tenth → 7.3 (the 4 is less than 5). · 7.36 → 7.4.
- **Value of a digit.** Find which place the digit sits in, then write what it is worth there as a number (not the place name).
In 3,742 the digit 7 sits in the hundreds place. Its value is 700.

STRETCH PROBLEMS

- 1 Róisín and her brother share the cost of their cinema snacks equally on Saturday. The calculator shows each share as €8.895 before rounding to the nearest cent. What is 8.895 rounded to the nearest hundredth?
- 2 A poster on the school noticeboard records 2,031,029 visitors to the Cliffs of Moher last year. What is the value of the second digit 2 in that number, reading from the left?
- 3 On a coach trip to the Burren in Clare, 6th class learn that 2,106,088 people visited the area last year. What is the value of the digit 6 in that number?
- 4 Saoirse reads on the school noticeboard that 1,100,877 visitors came to the Burren last year. What is the value of the digit 8 in that number?
- 5 Róisín pins a chart on the class noticeboard showing that 1,004,904 people visited Glendalough last year. What is the value of the first digit 4 in this number, reading from the left?