

Percent as "out of one hundred"

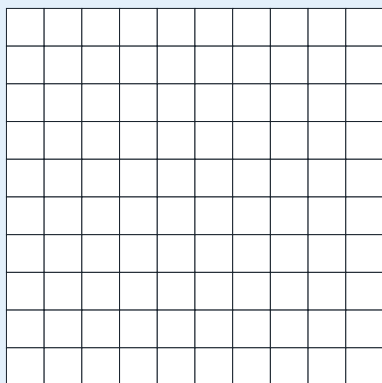
MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

HOW TO ANSWER TODAY

- **Equivalent fractions.** Whatever you multiply (or divide) the bottom by, do the same to the top.
 $\frac{2}{5} = \frac{?}{15}$. Bottom $\times 3$, so top $\times 3 \rightarrow \frac{6}{15}$

TRY IT ON THE LINE

The 10×10 grid has 100 cells. Each cell is 1% of the whole.



1. Shade **10%** (10 cells) using one colour.
2. Shade a different **25%** (25 cells) using a second colour.
3. How many cells are still **unshaded**? _____
4. If you shade **one more** cell, what percent of the grid is now coloured? _____

PRACTICE

- 1 On the way home from the school tour to the Cliffs of Moher, Aoife colours in a 10×10 grid in her copybook to show how much of the journey is finished. She wants to shade **18%** of the **100** small squares. How many squares should she shade?
- 2 Cian's 5th class teacher hands out a 10×10 grid of biscuit squares from a tray at break time and asks the pupils to shade **88%** of the squares to show how many biscuits have been eaten. How many of the **100** small squares should Cian shade?

CHALLENGE

- 1 On the school nature walk through the local park, 5th class spot a 10×10 grid of trees, with **100** trees in total. They want to mark **97%** of the trees with a small ribbon to count them. How many of the **100** trees should they mark?
 To shade 97% of a 10×10 grid, how many of the 100 small squares should you shade?
- 2 Mr Ó Briain's 5th class are lining up at the door before going out to the yard. He shows a 10×10 grid on the whiteboard and asks the class to shade **17%** of it. How many of the **100** small squares should be shaded?