Decimals and fractions — they're the same thing

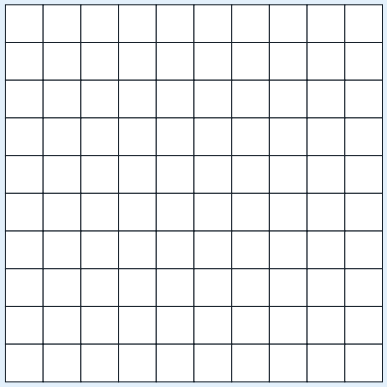
MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

HOW TO ANSWER TODAY

- **Fraction · decimal · %.** Divide top by bottom to get a decimal. Multiply a decimal by 100 to get a percent. Write fractions in lowest terms.
  1/4 = 0.25 = 25% · 0.6 = 60% = 3/5

TRY IT ON THE LINE

Each row of the 100-grid is 10 cells = one tenth of the whole. Shade each amount, then write it three ways.



1. Shade **0.3** (= 3/10) — that's 30 cells.
2. Shade **0.47** (= 47/100) (different colour) — that's 47 cells.
3. Shade **0.05** (= 5/100) (different colour).
4. For each, write: decimal = _____ fraction = _____ percent = _____

PRACTICE

1. On sports day, Cian's 5th class is making a **10** × **10** grid poster to track how many pupils have finished their events. They want to shade **18%** of the **100** small squares to show the first group home from the relay. How many small squares should they shade?

2. For an art lesson, 5th class are buying small sketchpads to draw a scale plan of the school yard. **6** sketchpads cost **€18** in the local SuperValu. Using the unitary method, what would **9** sketchpads cost?

   If 6 identical items cost €18, what do 9 items cost (use the unitary method)?

ALWAYS, SOMETIMES, NEVER

Always true, sometimes true, or never true? Write A, S or N.

a. 20% off then 10% off is the same as 30% off. ☐

b. If a price has 25% added then 25% taken off, you end up with the original. ☐

c. 10% of a price is the price ÷ 10. ☐

d. Half off (50% off) is the same as paying half. ☐

e. A bigger discount percent always means a bigger saving in euro. ☐

f. VAT at 23% added on means the final price is 1.23 times the pre-VAT price. ☐