End-of-year review: number, measures and shape

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES ALGEBRA

HOW TO ANSWER TODAY

- **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.
- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors: cm↔mm ×10, m↔cm ×100, km↔m ×1,000, kg↔g ×1,000, l↔ml ×1,000.
  250 cm → m: ÷ 100 = 2.5 m 3.5 kg → g: × 1,000 = 3,500 g

STRETCH PROBLEMS

1. The class bird-feeder chart shows that **4,531** birds have visited the classroom window since September. Write **4,531** in expanded form.
2. The noticeboard at the mart in Cork lists **8,006** calves sold this year. In the number **8,006**, what is the value of the digit **8**?
3. The school noticeboard shows that **4,857** books were borrowed from the library this year. Write **4,857** in expanded form.
4. Tadhg's robotics team measures the wire for their classroom robot and it is **72 cm** long. To label it on their build sheet, they need the length in millimetres. How many millimetres long is the wire?
5. The school's stationery store card shows **3,164** pencils have been handed out this year. Write **3,164** in expanded form.