

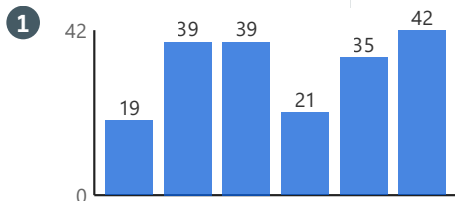
# Big investigation – how tall is the school?

MODULE 9 · MATHEMATICAL MODELING AND END-OF-YEAR REVIEW REVIEW

## HOW TO ANSWER TODAY

- **Mean (average).** Add ALL the numbers. Divide by HOW MANY there are.  
Mean of 2, 5, 6, 9 →  $(2+5+6+9) \div 4 = 22 \div 4 = 5.5$
- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors:  
cm ↔ mm  $\times 10$ , m ↔ cm  $\times 100$ , km ↔ m  $\times 1,000$ , kg ↔ g  $\times 1,000$ , l ↔ ml  $\times 1,000$ .  
250 cm → m:  $\div 100 = 2.5$  m · 3.5 kg → g:  $\times 1,000 = 3,500$  g

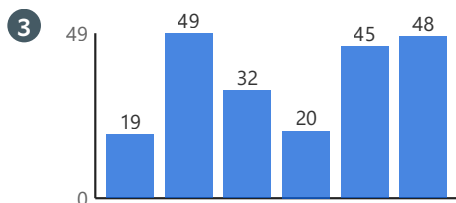
## STRETCH PROBLEMS



Six pupils in 5th class track their pocket money in euro across the half-term. The amounts saved are €19, €39, €39, €21, €35 and €42. What is the mean amount saved?

- 2 Saoirse cycles from granny's farmhouse to the far field to check on the calves. The lane runs 3290 m from the gate to the field. How many kilometres is that?

Convert 3290 m to km.



Cian records his scores out of 50 on six weekly spelling tests in 5th class. His scores are 19, 49, 32, 20, 45 and 48. What is the mean score across the six tests?

- 4 5th class at St Brigid's measured the total length of ribbon left on the spools in the classroom craft store and got 7628 cm in total. The teacher wants the answer written in kilometres for the stocktake sheet. How many kilometres is 7628 cm?

Convert 7628 cm to km.

- 5 5th class are taping out a giant Snakes and Ladders track in the school yard, with the full snaking path measuring 5969 cm from start to finish. For their maths display, they need to record the path length in kilometres. How many kilometres long is the track?

Convert 5969 cm to km.