

Division with remainders

MODULE 2 · THE FOUR OPERATIONS — MENTAL AND WRITTEN

NUMBER

STRETCH PROBLEMS

- 1 Cara has **65** markers to pack into **4** storage boxes for the classroom. She puts an equal number into each box. How many markers go in each box, and how many are left over?
 $65 \div 4 = ?$ Give the answer and the remainder.
- 2 Cian has **82** coloured cubes for a maths investigation. He shares them equally into **7** bags. How many cubes go in each bag, and how many are left over?
 $82 \div 7 = ?$ Give the answer and the remainder.
- 3 Cian has **78** cones to share equally between **4** soccer teams practising on the school field. Each team gets the same number of cones. How many cones does each team get, and how many are left over?
 $78 \div 4 = ?$ Give the answer and the remainder.
- 4 Cian is sharing out **34** hurleys equally between **3** storage racks in the school shed. How many hurleys go on each rack, and how many are left over?
 $34 \div 3 = ?$ Give the answer and the remainder.
- 5 The 4th class fills the classroom bird-feeder with **158** sunflower seeds. Each little bird that visits eats **8** seeds. How many birds can eat a full **8** seeds, and how many seeds are left over?
 $158 \div 8 = ?$ Give the answer and the remainder.

INVESTIGATE

What should we do with the leftovers?

Invent three real Irish classroom or sports situations where a division leaves a **remainder** (e.g. sharing sliotars, seating on a bus, packing lunch boxes). For each one, work out the calculation and decide what is fairest to do with the leftover — and explain why.
