

## Division word problems

- 1) A baker produces 1467 cookies. The cookies are sold in bags of 6 cookies.
  - a) How many full bags will be made?
  - b) How many cookies will be left over?
- 2) A school party of 86 children are to travel on a steam train. 9 children can fit into each compartment. How many compartments will be needed?
- 3) A group of 157 dancers are organised into groups of nine. How many full groups of nine can be created?
- 4) In school, there are 7 year groups. A pack of 2335 sets of sticky notes need sharing equally among the year groups. How many sets of sticky notes will each year group receive? Will there be any packs left over for the headteacher?
- 5) A factory makes 2867 cars in a week. Each car transporter can carry 8 cars. How many transporters are needed to carry all the cars away?
- 6) There are 1498 children in Dove Primary school. They need to be placed into teams for their sports day.
  - a) How many teams will there be if the teams are sorted into groups of 8?
  - b) Will there be any children not in a team? How many?
  - c) What is the best number of children to have in each team so that there are no children left over? There must not be any more than 10 children in a group. Prove your answer.

### Answers

- 1) a) 244 bags b) 3 cookies left over
- 2) 10 compartments will be needed
- 3) 17 groups of 9
- 4) Each year group will get 333 sticky notes with 4 sets left over for the headteacher
- 5) 359 transporters will be needed
- 6) a) 187 teams    b) 2 children not in a team. c) 7