## Maths - Year 6

Calculating 10: Introducing long written methods of dividing


## Mathematical Methods

- Dividing in context - the sharing and grouping structures e.g. A class of 27 children is going on a trip to the theatre. The teacher asks them to do some preparatory work in groups of 3 . How many groups of 3 will there be?

- Introducing the long written method of dividing—sharing structure e.g. We have 352 seats to share between 11 sections.


OR 345 seats to share between 15 sections.


- Introducing the long written method of dividing-grouping structure e.g. At the theatre, the manager wants to order 1720 ice creams to sell during intervals. The ice creams come in boxes of 15 . How many boxes should the manager order?

- Developing the long written method of dividing for grouping e.g. the theatre holds 2496 people altogether, with 24 seats in each row. How many rows of seats are there?


Developing the long written method of dividing for sharing, and expressing remainders as fractions when sharing or grouping e.g. a group of children are mixing red and yellow paint to make orange, and storing it in small paint pots. They have made 1712 ml of orange paint, and each paint pot holds 48 ml . How many pots will the children fill?


- Expressing remainders as decimals when sharing or grouping e.g. A café has 6986 ml or juice concentrate and every 56 ml makes 1 litre of a juice drink. How many litres of the drink can be made?

- Dividing decimals by whole numbers.



## Can you..?

- How many books will each class get?


Solve $2853 \div 36$

