Introduction
Schofield & Sims Mental Arithmetic provides differentiated practice tests in key areas of maths, to be administered regularly. The series consists of seven pupil books – all of them conforming to a standard layout. Mental Arithmetic 6 pupil book contains:

• 36 one-page tests, each comprising three parts – Parts A, B and C
• three Achievement Charts for recording pupils’ results (see pupil book pages 15, 30 and 45)
• three Revision Tests, consisting of 40–45 questions each (see pupil book pages 16, 31 and 46).

Parts A, B and C
Each test appears on one page and is divided into three parts (see below). Parts A and B follow the same topic order throughout. Part C comprises longer problem-solving questions. Give your pupils one test each week, with Parts A, B and C on separate days. Speed with accuracy is important, so a time limit of 10 minutes per part is recommended.

Part A  Questions 1–4: Number: four operations with positive and negative integers (including remainders, brackets). Numbers in words and figures; powers/index notation. Fractions, decimals, percentages, ratios, mixed numbers. Equivalence; ordering (including negative numbers, symbols <, >).
Questions 5–9: Calculation: involving fractions, decimals, percentages and ratios. Four operations with decimals (including remainders, brackets). Approximations to significant figures/decimal places; estimations.

Part B Questions 1–2: Money: four operations, shopping, costing, sharing, ratio. Percentages, profit, loss; buying and selling; interest. Deposits, instalments; sales, discounts; foreign exchange.
Question 10: Approximations


Answering the test questions
The material in each section is graded: before any question is attempted, the work will usually have been covered in class. The term ‘mental arithmetic’ implies that answers only are required. However, most pupils working at this level will need spare paper, for workings out or to note down information from the tables and graphs.

Marking
When the pupils have completed a test, read out the answers as they mark their own work – or give them answer books to refer to. Then ask them to complete the Achievement Chart appearing at the end of each pupil book section. Alternatively, you may yourself complete the Diagnostic Charts on pages 15, 30 and 45 of this book.