

# CONTENTS

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## SECTION 1

**Tests 1 to 12** (including revision of **Mental Arithmetic 3**) **4**

**Number: number and place value** read, write, order and compare numbers to 1 000 000 and determine the value of each digit, count in steps of powers of 10, interpret negative numbers in context, read and write Roman numerals to 1000 (M), round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000; **addition and subtraction** add and subtract whole numbers with more than four digits, add and subtract numbers mentally with increasingly large numbers; **multiplication and division** identify multiples and factors of numbers, multiply numbers up to four digits by a 1- or 2-digit number, multiply and divide numbers mentally, divide numbers up to four digits by a 1-digit number and interpret remainders appropriately, multiply and divide numbers and those involving decimals by 10, 100 and 1000, use square numbers and the notation ( $^2$ ); **fractions (including decimals and percentages)** compare and order fractions, identify, name and write equivalent fractions of a given fraction including tenths and hundredths, add and subtract fractions with the same denominator and denominators that are multiples of the same number

**Measurement:** measure and calculate the perimeter of composite rectilinear shapes, calculate the area of rectangles, solve problems involving converting between units of time, use all four operations to solve problems involving measure using decimal notation including scaling

**Geometry: properties of shapes** estimate and compare acute, obtuse and reflex angles; **position and direction** identify, describe and represent the position of a shape following a reflection or translation

**Statistics:** complete, read and interpret information in tables, including timetables

**Progress Test 1** **16**

## SECTION 2

**Tests 1 to 12** (including revision of Section 1) **18**

**Number: number and place value** read, write, order and compare numbers to at least 1 000 000, recognise years written in Roman Numerals; **multiplication and division** solve problems involving addition, subtraction, multiplication and division and a combination of these, including scaling by simple fractions and problems involving simple rates; **fractions (including decimals and percentages)** read and write decimal numbers as fractions, recognise and use thousandth, round decimals with two decimal places, read, write, order and compare numbers with up to three decimal places, solve problems involving number up to three decimal places, recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', recognise mixed numbers and improper fractions and convert from one form to the other

**Measurement:** estimate volume and capacity

**Geometry: properties of shapes** identify 3-D shapes from 2-D representations, identify angles at a point and one whole turn, angles on a straight line and other multiples of  $90^\circ$

**Statistics:** solve sum and difference problems using information presented in charts and line graphs

**Progress Test 2** **30**

## SECTION 3

**Tests 1 to 12** (including revision of Sections 1 and 2) **32**

**Number: multiplication and division** use cube numbers and the notation ( $^3$ ), solve problems involving factors and multiples, squares and cubes; **fractions (including decimals and percentages)** solve problems involving percentage, fraction and decimal equivalents

**Geometry: properties of shapes** use the properties of rectangles to deduce related facts and find missing lengths and angles, distinguish between regular and irregular polygons based on reasoning about equal sides and angles

**Statistics:** solve comparison, sum and difference problems using information presented in tables and pie charts

## CHECK-UP TESTS

**Number** **44**

**Measurement** **46**

**Measurement and geometry** **47**