

KS2

YEAR 6 MATHS ASSESSMENTS



REVISION PACK

- 10 diagnostic assessment papers
- SATs style questions
- Mark scheme and tracking sheets included

Contents

	Page
Introduction	03
Paper 1: Number and place value	04
Paper 2: Number and calculation (addition, subtraction, multiplication and division)	08
Paper 3: Fractions, decimals and percentages	13
Paper 4: Ratio and proportion	18
Paper 5: Algebra	22
Paper 6: Measurement	26
Paper 7: Geometry (properties of shapes, and position and direction)	32
Paper 8: Statistics (charts and data)	40
Paper 9: SATs style arithmetic paper	46
Paper 10: SATs style reasoning paper	52
Pupil tracking sheet	62
Class analysis sheets	66
Class tracking sheet	78

Introduction

This pack is designed to help year 6 pupils prepare for their maths SATs and to help year 6 teachers assess pupils' knowledge and understanding of the statutory requirements laid out in the National Curriculum Year 6 programme of study.

All the questions are presented in the style of SATs questions and, like the SATs, they also test knowledge and understanding from the programmes of study for the previous years of the National Curriculum.

This pack includes 10 question papers in total, eight of which are each based upon a specific mathematical strand and two of which are SATs practice papers (one for arithmetic and one for reasoning).

Papers 1-8 feature between 10 and 20 questions depending on the strand and the number of NC objectives within it. The two SATs practice papers comprise 30 questions each.

Marking

Each paper is followed by an answer sheet with notes.

Where teachers have further queries as to how to mark any question, it is intended that teachers mark the papers using the government general marking guidance for KS2 maths SATs. If you are not yet familiar with this guidance, it can be found in the government's KS2 Mathematics Test Mark Schemes under 'General Marking Guidance' on pp 5-16 of the 2022 documents.

The pack also includes three types of progress tracking sheets. These comprise an individual pupil tracking sheet cross-referenced with all the year 6 NC maths objectives and the relevant papers and questions, a class analysis sheet for each separate paper to enable teachers to see where the class needs more practice, and a class analysis. Teachers may want to use one, two or all three of these progress tracking sheets.

We hope you enjoy using this pack. If you have any questions, please get in touch: email support@teachit.co.uk or call us on 01225 788851.

Paper 1: Number and place value

1.	<p>Draw lines to match the words to the correct numbers.</p> <p style="text-align: center;"> 407,077 407,707 470,077 470,770 </p> <p style="text-align: center;"> Four hundred and seven thousand, seven hundred and seven Four hundred and seventy thousand and seventy-seven </p>	<input style="width: 30px; height: 30px; margin-bottom: 5px;" type="text"/> <input style="width: 30px; height: 30px;" type="text"/>
2.	<p>Circle the numbers where the 6 represents 6 hundreds.</p> <p style="text-align: center;"> 2,604 386 9,963 615 6,570 </p>	<input style="width: 30px; height: 30px; margin-bottom: 5px;" type="text"/> <input style="width: 30px; height: 30px;" type="text"/>
3.	<p>Write the number 560,209 in words.</p> <p>.....</p> <p>.....</p>	<input style="width: 30px; height: 30px; margin-bottom: 5px;" type="text"/> <input style="width: 30px; height: 30px;" type="text"/>
4.	<p>Here are four numbers.</p> <p style="text-align: center;"> 1,468,000 864,001 846,100 1,060,840 </p> <p>The smallest number is</p> <p>The greatest number is</p>	<input style="width: 30px; height: 30px; margin-bottom: 5px;" type="text"/> <input style="width: 30px; height: 30px;" type="text"/>
5.	<p>Draw two more lines to match 5,600 with numbers of the same value.</p> <p style="text-align: center;">560 hundreds</p> <p style="text-align: center;">560 tens</p> <p style="text-align: center;">5,600 → 5,600 ones</p> <p style="text-align: center;">56 tens</p> <p style="text-align: center;">56 hundreds</p>	<input style="width: 30px; height: 30px; margin-bottom: 5px;" type="text"/> <input style="width: 30px; height: 30px;" type="text"/>

12. At midnight the temperature was -6°C .
 At midday the next day it was 5°C .
 By how much had the temperature risen between these two times?
 $^{\circ}\text{C}$

 1

13. Write these numbers in the correct place in the table when they are rounded to the nearest thousand.

1,610 875 2,490 3,030 2,885

Rounds to 1,000	Rounds to 2,000	Rounds to 3,000

 2

14. Sunil is playing a number guessing game with his friends.
 He thinks of a number.
 He gives his friends these clues.
 'My number is between 20 and 30.'
 'My number is an odd number.'
 'My number is not a multiple of 3 or 5.'
 Write down all the numbers that could be Sunil's secret number.

.....

 1

15. Write the next two numbers in this sequence.

10,405 10,305 10,205 10,105

 1

Total marks 18

Paper 1 answer sheet: Number and place value

Question	Marks	Answer	Notes
1	1	407,707 470,077	Correctly matched to first group of number words. Correctly matched to second group of number words.
2	1	2,604 and 615	Both circled (accept ticks or any other clear way of indicating which numbers have been chosen).
3	1	Five hundred and sixty thousand, two hundred and nine	
4	1	846,100 1,468,000	smallest greatest
5	1	560 tens and 56 hundreds	Both correctly matched.
6	2	2024 MDCCCLIII	1 mark for each answer.
7	1	763,000 553,760	
8	2	9,514 4,951	1 mark for each answer.
9	1	6 °C	
10	1	90,000	
11	1	423, 399, 409, 352	All correctly circled and no other incorrectly circled numbers.
12	1	11°C	
13	2	875 → 1,000 1,610 → 2,000 2,490 → 2,000 3,030 → 3,000 2,885 → 3,000	All correct for 2 marks. 3 or more correct for 1 mark.
14	1	23 and 29	
15	1	10,005 and 9,905	
	Total 18		