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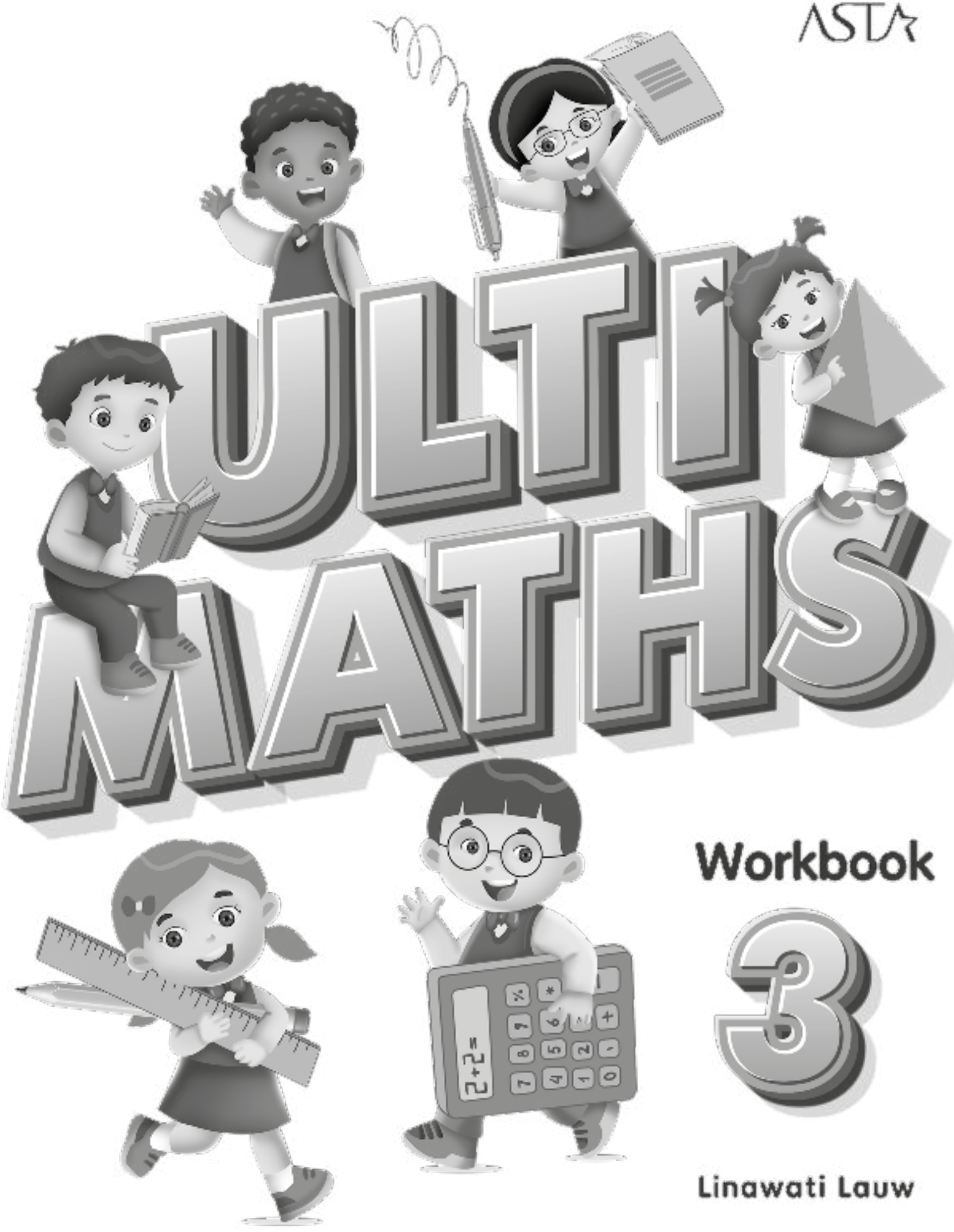

Workbook

3

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Ultimaths - Workbook 3

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Preface

ULTI MATHS is a mathematics learning series for primary school students. The contents are systematically arranged according to the ability of the child, which can be applied in everyday life, and can be used as preparation for the next level.

ULTI MATHS uses an international standard of mathematical teaching and learning approaches, which have been proven to bring children success in learning mathematics. The Concrete-Pictorial-Abstract approach introduces new concepts with the use of appropriate manipulatives, before moving to pictorials and abstract representations. The development of topics across the levels in spiral progression approach helps learners acquire a new concept by building on previously learned concepts. The focus on Problem Solving by promoting the use of bar models, empowers students to develop visualization skills to better understand word problems before solving them.

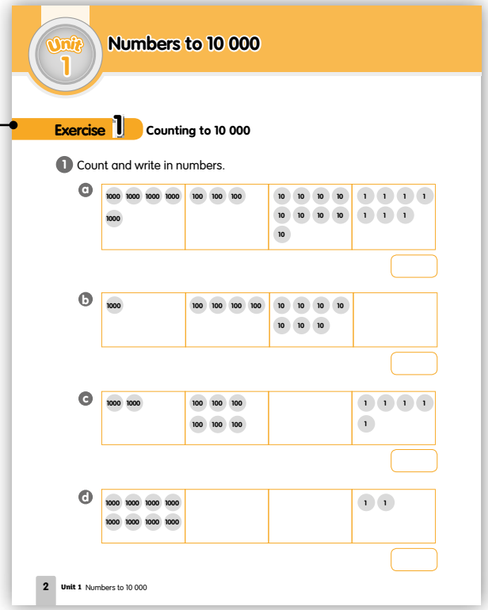
ULTI MATHS provides active, fun, and collaborative mathematics learning with lots of activities and games. These learning experiences will enable students to acquire and apply concepts and skills, develop critical thinking skills, and positive attitudes towards mathematics.

Using This Book

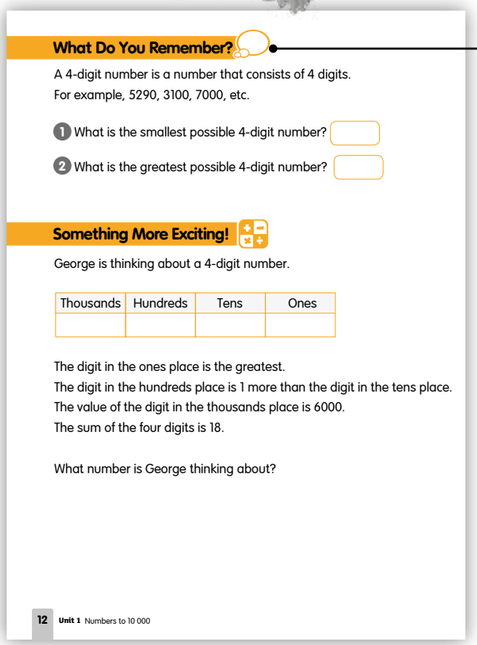
Ultimaths has some special features to help students learn and use this book.

Exercise

Independent practices to strengthen and consolidate the concepts learned in Textbook.



What Do You Remember?

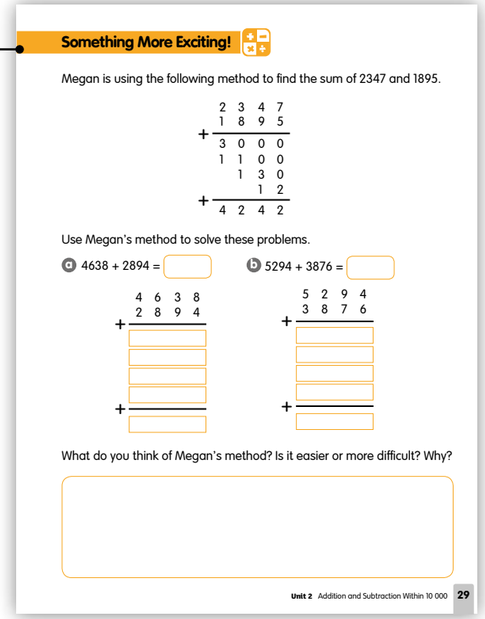


What Do You Remember?

This feature is for reflection of what have been learnt.

Something More Exciting!

More challenging practice to stimulate higher order thinking.



Contents

Unit 1

Numbers to 10 000

Exercise 1 Counting to 10 000

1 Count and write in numbers.

a

1000 1000 1000 1000 1000	100 100 100	10 10 10 10 10 10 10 10 10	1 1 1 1 1 1 1

b

1000	100 100 100 100	10 10 10 10 10 10 10	

c

1000 1000	100 100 100 100 100 100		1 1 1 1 1

d

1000 1000 1000 1000 1000 1000 1000 1000			1 1

2 Write in words.

a 5782

b 7903

c 4026

d 6009

3 Write in numbers.

a nine thousand, one hundred and seventeen

b one thousand, nine hundred and eighty-three

c seven thousand, nine hundred and fifty-one

d three thousand and eight

Exercise 2 Using Place Value to Show Numbers

1 Find the missing numbers.

1000 1000 1000 1000 1000 1000	100 100 100 100 100	10 10 10 10 10 10 10 10	1 1

Thousands	Hundreds	Tens	Ones

(a) The digit 6 is in the _____ place.

The digit 5 is in the _____ place.

The digit 8 is in the _____ place.

The digit 2 is in the _____ place.

(b) The value of the digit 6 is _____.

The value of the digit 5 is _____.

The value of the digit 8 is _____.

The value of the digit 2 is _____.

2 Show 4631 using the place value chart.

Thousands	Hundreds	Tens	Ones

(a) The digit _____ is in the thousands place.

The digit _____ is in the hundreds place.

The digit _____ is in the tens place.

The digit _____ is in the ones place.

(b) The value of the digit 4 is _____.

The value of the digit 6 is _____.

The value of the digit 3 is _____.

The value of the digit 1 is _____.

3 Write the missing numbers.

(a) 3458 = 3000 + _____ + 50 + 8

(b) 9004 = _____ + 4

(c) 5374 = 5000 + 300 + _____ + 4

(d) 8143 = _____ + 100 + 40 + 3

4 State the value of the digit 5 in each number.

(a) 6**5**93 _____

(b) **5**207 _____

(c) 84**5**6 _____

(d) 289**5** _____

Exercise 3 Using 1000 100 10 1 to Compare Numbers

1 Which is greater, 1423 or 2034?

1423

1000	100 100 100 100	10 10	1 1 1

2034

1000 1000		10 10 10	1 1 1 1

[ ] is greater than [ ].

2 Which is smaller, 3705 or 5370?

3705

1000 1000 1000	100 100 100 100 100 100 100		1 1 1 1 1

5370

1000 1000 1000 1000 1000	100 100 100	10 10 10 10 10 10 10	

[ ] is smaller than [ ].

3 Fill in with < or >.

(a) 8138 [ ] 7998

(b) 4999 [ ] 5000

Exercise 4 Using Place Value Chart to Compare Numbers

1 Compare the numbers in the place value chart.

(a)

Thousands	Hundreds	Tens	Ones
9	9	7	5
9	0	3	6

[ ] is greater than [ ].

(b)

Thousands	Hundreds	Tens	Ones
7	4	3	0
7	4	6	3

[ ] is smaller than [ ].

2 Compare the numbers in the place value chart.
Fill in with **<** or **>**.

(a) 5613 and 5884

Thousands	Hundreds	Tens	Ones
5	6	1	3
5	8	8	4

5613 [ ] 5884

(b) 4790 and 4750

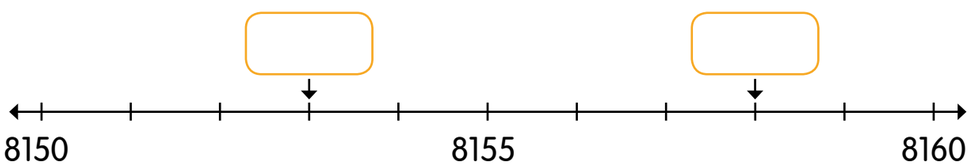
Thousands	Hundreds	Tens	Ones
4	7	9	0
4	7	5	0

4790 [ ] 4750

Exercise 5 Using Number Lines to Compare Numbers

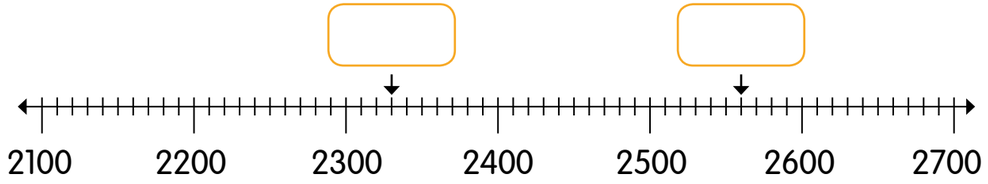
Use number lines to compare the following numbers.

1 Which number is greater, 8158 or 8153? ☐



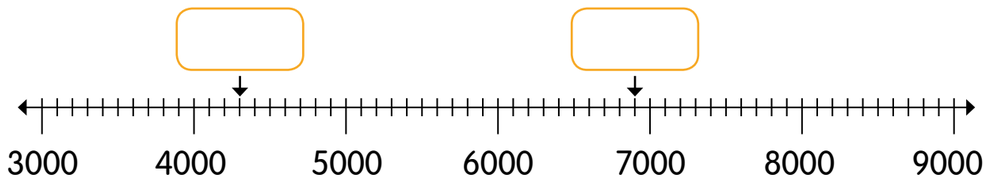
☐ is greater than ☐.

2 Which number is smaller, 2330 or 2560? ☐



☐ is smaller than ☐.

3 Which number is greater, 4300 or 6900? ☐



☐ is greater than ☐.

Exercise 6 Ordering Numbers

1 Circle the greatest number in each set.

a 8761 7235 7293 3978

b 3468 3486 3864 3846

2 Circle the smallest number in each set.

a 2691 6847 5392 3416

b 1256 1265 1526 1562

3 Arrange the numbers in order, from the greatest to the smallest.

7084, 7784, 7048

☐, ☐, ☐

4 Arrange the numbers in order, from the smallest to the greatest.

6935, 6918, 6198, 6398

☐, ☐, ☐, ☐

5 Form the greatest 4-digit number using these numbers.

a 6, 2, 9, 5 ☐

b 4, 0, 7, 1 ☐

Exercise 7 Number Patterns

1. Write the missing numbers.

   a. 10 more than 3409 is ____.

   b. 10 more than 9238 is ____.

   c. 100 more than 6820 is ____.

   d. 10 less than 2759 is ____.

   e. 100 less than 5946 is ____.

   f. 100 less than 7402 is ____.

2. Complete the number patterns.

   a. 1010, 1020, 1030, ____, ____, 1060, 1070

   b. 3471, 3461, ____, ____, 3431, 3421, 3411

   c. 7630, 7730, ____, ____, 8030, 8130

   d. ____, ____, 6218, 6318, 6418

   e. ____, 2224, ____, 2424, 2524, 2624

Exercise 8 Finding the Number Patterns

1. Write the missing numbers.

   a. 1000 more than 3557 is ____.

   b. 1000 more than 3716 is ____.

   c. 1000 more than 8904 is ____.

   d. 1000 less than 2621 is ____.

   e. 1000 less than 4579 is ____.

   f. 1000 less than 5367 is ____.

2. Complete the number patterns.

   a. 2851, 3851, 4851, ____, ____

   b. 8510, 7510, 6510, ____, ____

   c. 3126, 4226, 5326, ____, ____

   d. 9999, 8899, 7799, ____, ____

What Do You Remember?

A 4-digit number is a number that consists of 4 digits.
For example, 5290, 3100, 7000, etc.

1 What is the smallest possible 4-digit number? ☐

2 What is the greatest possible 4-digit number? ☐

Something More Exciting!

George is thinking about a 4-digit number.

Thousands	Hundreds	Tens	Ones

The digit in the ones place is the greatest.
The digit in the hundreds place is 1 more than the digit in the tens place.
The value of the digit in the thousands place is 6000.
The sum of the four digits is 18.

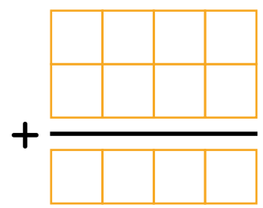
What number is George thinking about?

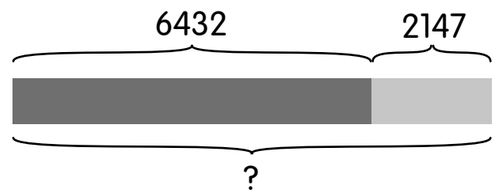
Unit 2 Addition and Subtraction Within 10 000

Exercise 1 Addition without Regrouping

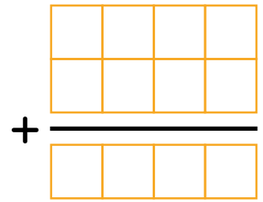
1 Find the sum of these numbers.

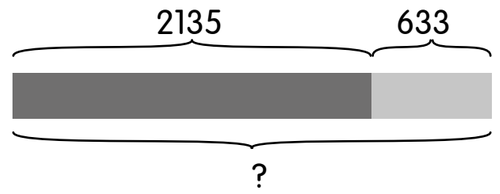
a 6432 and 2147.
6432 + 2147 = ☐





b 2135 and 633.
2135 + 633 = ☐





c 502 and 3214.
502 + 3214 = ☐