

MULTI MATHS



Textbook

1

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Ultimaths - Textbook 1

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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.

Let's Find Out

To check students' prior knowledge.



Lesson 7 Completing Number Patterns

Let's Find Out

Use to make some towers with the pattern below.

10 20 30 40 ?

How many are there in the next tower?
How do you know?

Let's Learn

What comes next in the pattern below?

10, 20, 30, 40, 50, ?

10, 20, 30, 40, 50, ?

10 more than 50 is 60.
So, 60 comes next in the pattern.

10, 20, 30, 40, 50, ?
10 more than 50 is 50 + 10.

140 Unit 11 Numbers To 100

Let's Practise

To practise the concepts learned in Let's Learn section.

Let's Practise

Complete the multiplication stories.

1 There are boxes.
Each box has doughnuts.
 $\square \times \square = \square$
There are doughnuts altogether.

2 There are rows.
Each row has cupcakes.
 $\square \times \square = \square$
There are cupcakes altogether.

3 There are pencil cases.
Each pencil case has pencils.
 $\square \times \square = \square$
There are pencils altogether.

Workbook 2: Practice 3, page 51-52

66 Unit 4 Multiplication

Something More Exciting!

More challenging practice to stimulate higher order thinking.

Something More Exciting!

1 I am a number.
I am greater than 5, but smaller than 7.
What number am I?

2 I am a number.
I am smaller than 8, but greater than 6.
What number am I?

12 Unit 1 Numbers to 10



Unit 10 Solids and Shapes

Lesson 1 Getting to Know Solids

Let's Find Out

Take one from these .
What solid did you take?

Let's Learn

Solids	Examples of Objects
cuboid	
cube	
cylinder	
cone	
sphere	

Let's Learn

To introduce concepts, skills, or problem-solving strategies in an engaging way by using Concrete-Pictorial-Abstract approach.


Contents


Let's Play

Players : 3-4
Materials needed : 2 sets of number cards

How to play:

- 1 Player A shuffles the cards and gives cards to each player.
- 2 Each player then arranges the cards to make a 4-digit number.
- 3 All players show their numbers and compare. The player with the greatest number gets 1 point and shuffles the cards for the next round.
- 4 Repeat steps 1-3, but this time the player with the smallest number gets 1 point.
- 5 Alternate between comparing for the greatest and the smallest numbers.



 The first player who gets 5 points is the winner.



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Let's Play



Provide fun games to encourage collaboration and to deepen or extend understanding of concepts through the games.





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Lesson 1 Counting to 10



Let's Find Out

How many books are there in your bag?
Show the number with

 and some ●.



Let's Learn

Let's count and learn numbers 0 to 10.

0
zero



●				

1
one



●	●			

2
two



●	●	●		

3
three



●	●	●	●	

4
four



●	●	●	●	●

5
five



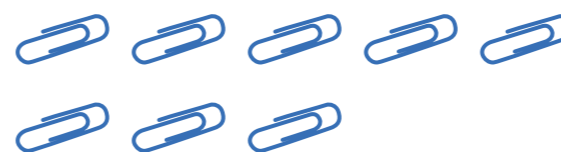
●	●	●	●	●
●				

6
six



●	●	●	●	●
●	●			

7
seven



●	●	●	●	●
●	●	●		

8
eight



●	●	●	●	●
●	●	●	●	

9
nine



●	●	●	●	●
●	●	●	●	●

10
ten



Let's Practise

1 Count and write the numbers.



4



2 Count and write the words.

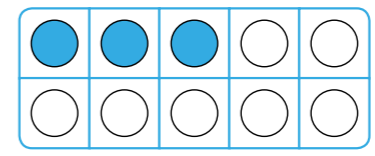


two

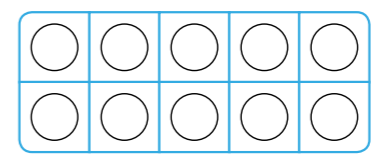


3 Colour the ○ according to the numbers or words.

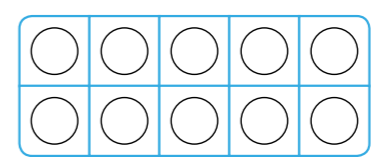
a 3



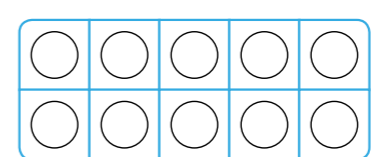
b five



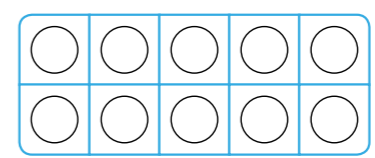
c seven



d 8




e 10



Lesson 2 Counting Back to Zero

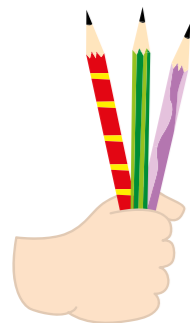


Let's Find Out

Hold 3  and put them one by one in your pencil case while counting back.
How do you count back from 3 to 0?



Let's Learn



3 pencils



2 pencils

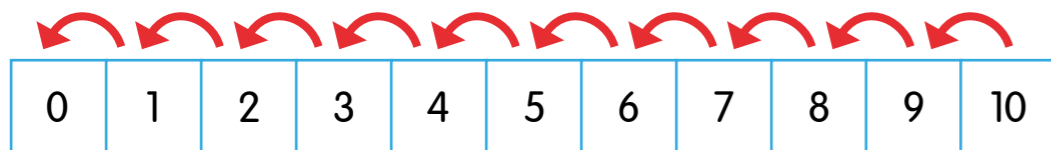


1 pencil



0 pencils

Count back from 10 to 0.



10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0



Let's Practise

1 Count on from 5 to 10.

5, , , , ,

2 Count back from 6 to 0.

6, , , , , ,



Workbook: Exercise 2, page 5

Lesson 3 Matching and Comparing



Let's Find Out

Show your .
 Your friend also shows his .
 Who has more ?
 Who has fewer ?
 How do you know?



Let's Learn

Let's compare the numbers of different fruit.



The number of tomatoes is **same as** the number of pears.



Draw a line to match one to one .



There are **more** oranges **than** apples.
 There are **fewer** apples **than** oranges.

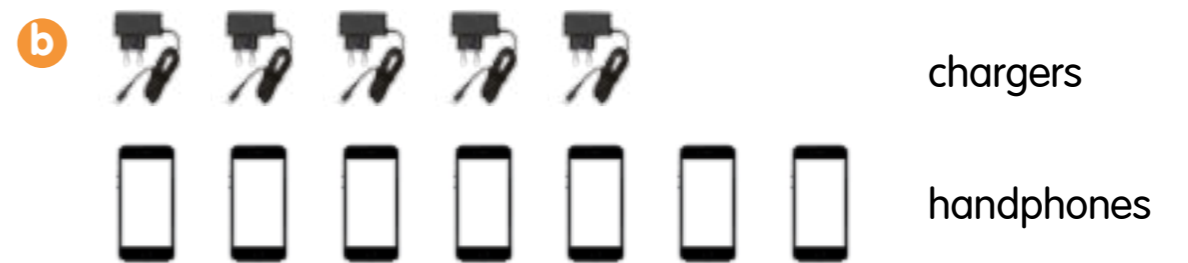


Let's Practise

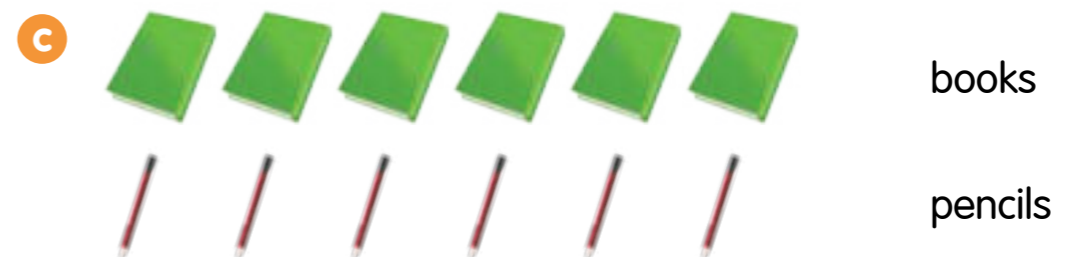
1 Match and compare. Circle the correct word.



There are **more** / **fewer** chickens than worms.



There are **more** / **fewer** chargers than handphones.



The number of books is **the same as** / **more than** the number of pencils.



There are **more** / **fewer** spoons than forks.



Lesson 4 Counting and Comparing



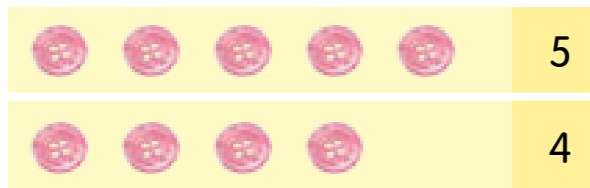
Let's Find Out

You and your friends take some 🍪.
 Who take more 🍪?
 Who take fewer 🍪?
 How do you know?



Let's Learn

Arrange the 🍪 so that we can compare them one to one.



5 is **greater** than 4.
 4 is **smaller** than 5.



Let's Practise

1 Compare and circle the correct answer.



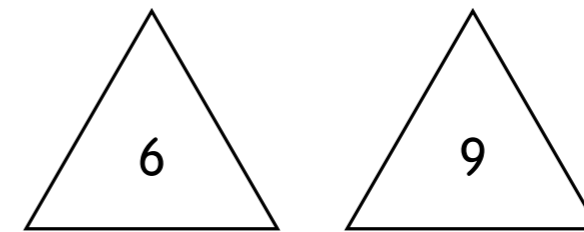
3 is **greater / smaller** than 7.



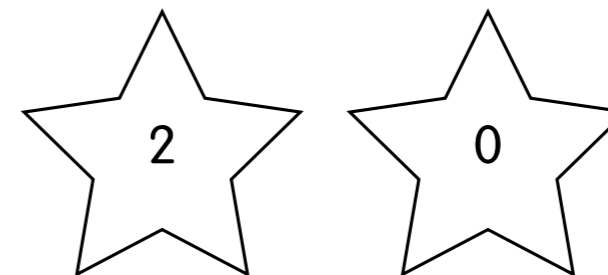
10 is **greater / smaller** than 8.

2 Colour.

a The **greater** number.



b The **smaller** number.



Workbook: Exercise 4, page 9-11

Something More Exciting!



- 1 I am a number.
I am greater than 5, but smaller than 7.
What number am I?
- 2 I am a number.
I am smaller than 8, but greater than 6.
What number am I?

Let's Play



Players : 2
Materials needed : 2 set of Ultimaths Object Cards

How to play:

- 1 Shuffle and pile up the on the table.
- 2 Player A takes 1 from the pile and puts it on the table.
- 3 Player B does the same steps.
- 4 Player A and player B compare the number of the objects on their .
- 5 The player with more objects on his/her card keeps the cards. If both cards have the same number of objects, then both players have to put their cards back into the pile.

There are **more** strawberries than zebras.

So, I keep the cards.



- 6 Repeat steps 2 - 5 until there is no card left in the pile.



The player who has more cards is the winner.