

# MULTI MATHS

**Workbook**

# 5

**Sangeeta Kaur Dhillon**




## Ultimaths - Workbook 5

Published by:

**PT. ASTA ILMU SUKSES** (member of Mentari Group)

RUKAN Sentra Niaga Puri Indah Block T1-14

West Jakarta 11610

 : 0856 9785 6420

 : @astailmusukses

 : contact@astailmu.com

 : www.astailmu.id

First published: January 2023

© 2022 Singapore Asia Publishers Pte. Ltd.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, or stored in any retrieval system of any nature without the prior written permission from the publishers.

# 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.



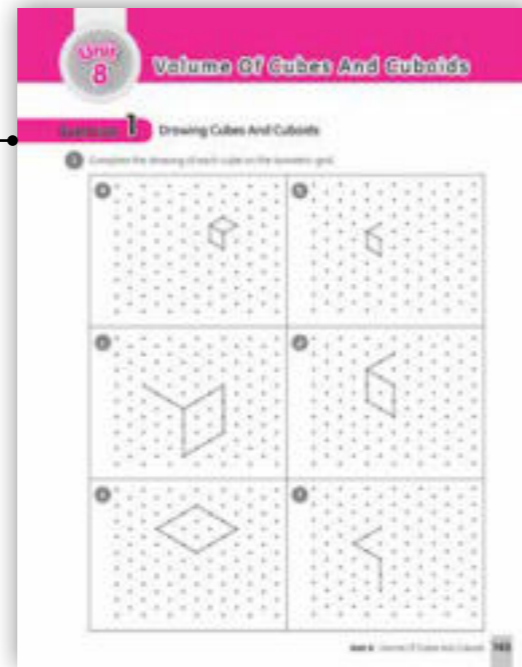
**ULTI MATHS** provides active, fun, and collaborative mathematics learning with lots of activities and games. These learning experiences will enable students to acquire and apply concepts and skills, develop critical thinking skills, and positive attitudes towards mathematics.

# Using This Book

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

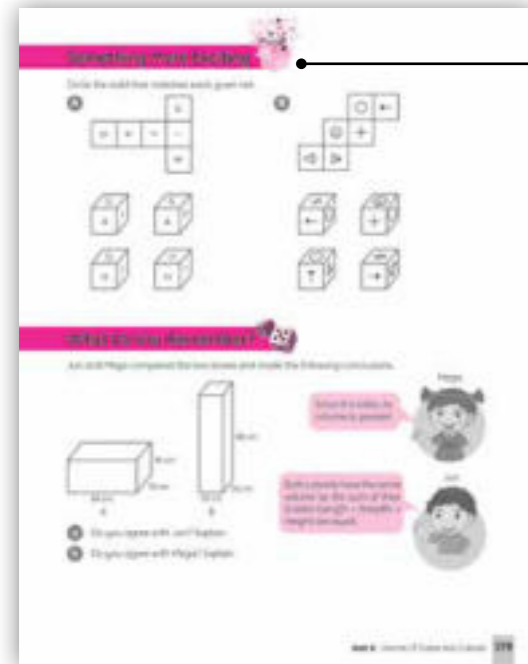
## Exercise

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



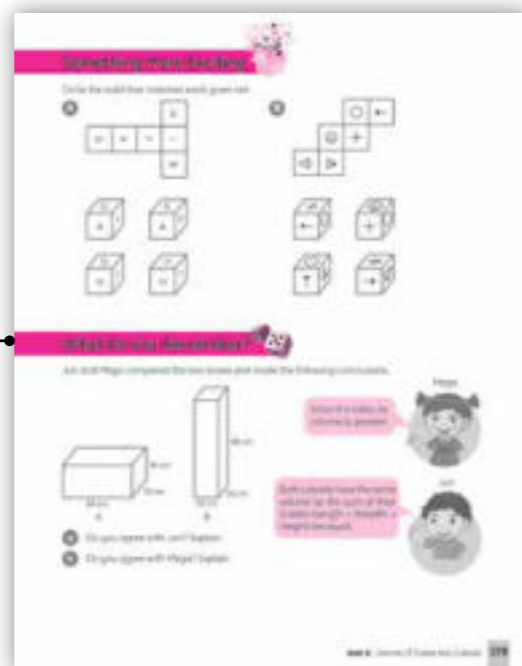
## What Do You Remember?

This feature is for reflection of what have been learnt.



## Something More Exciting!

More challenging practice to stimulate higher order thinking.



# Contents

## Unit 1

### Whole Numbers

<b>Exercise 1</b>	Numbers To 10 Million	2
<b>Exercise 2</b>	Place And Value	6
<b>Exercise 3</b>	Multiplying By Tens, Hundreds And Thousands	9
<b>Exercise 4</b>	Dividing By Tens, Hundreds And Thousands	13
<b>Something More Exciting</b>		17
<b>What Do You Remember?</b>		17

## Unit 2

### Fractions (1)



<b>Exercise 1</b>	Adding Unlike Fractions	18
<b>Exercise 2</b>	Subtracting Unlike Fractions	22
<b>Exercise 3</b>	Word Problems (1)	25
<b>Exercise 4</b>	Fractions And Division	28
<b>Exercise 5</b>	Adding Mixed Numbers	30
<b>Exercise 6</b>	Subtracting Mixed Numbers	33
<b>Exercise 7</b>	Word Problems (2)	36
<b>Something More Exciting</b>		39
<b>What Do You Remember?</b>		39

## Unit 3


### Fractions (2)

<b>Exercise 1</b>	Product Of Proper Fractions	40
<b>Exercise 2</b>	Word Problems (1)	42
<b>Exercise 3</b>	Product Of An Improper Fraction And A Proper Or Improper Fraction	44
<b>Exercise 4</b>	Product Of A Mixed Number And A Whole Number	46
<b>Exercise 5</b>	Word Problems (2)	48
<b>Exercise 6</b>	Dividing A Fraction By A Whole Number	50
<b>Exercise 7</b>	Word Problems (3)	53
<b>Something More Exciting</b>		56
<b>What Do You Remember?</b>		56



Unit 4**Four Operations With Decimals**

<b>Exercise 1</b>	Fractions And Decimals .....	57
<b>Exercise 2</b>	Addition .....	60
<b>Exercise 3</b>	Subtraction .....	65
<b>Exercise 4</b>	Word Problems (1) .....	71
<b>Exercise 5</b>	Multiplication .....	75
<b>Exercise 6</b>	Division .....	82
<b>Exercise 7</b>	Word Problems (2) .....	91
<b>Exercise 8</b>	Multiplying By Tens, Hundreds And Thousands .....	93
<b>Exercise 9</b>	Dividing By Tens, Hundreds And Thousands .....	97
 <b>Something More Exciting</b>	.....	101
 <b>What Do You Remember?</b>	.....	101



Unit 5**Ratio**

<b>Exercise 1</b>	Finding Ratio .....	102
<b>Exercise 2</b>	Equivalent Ratios .....	107
<b>Exercise 3</b>	Word Problems .....	110
<b>Exercise 4</b>	Scaled Diagrams .....	112
 <b>Something More Exciting</b>	.....	114
 <b>What Do You Remember?</b>	.....	114



Unit 6**Percentage**

<b>Exercise 1</b>	Converting More Fractions To Percentages .....	115
<b>Exercise 2</b>	Percentage Of A Quantity .....	118
<b>Exercise 3</b>	Word Problems .....	121
 <b>Something More Exciting</b>	.....	123
 <b>What Do You Remember?</b>	.....	123



Unit 7**Time And Speed**

<b>Exercise 1</b>	Seconds .....	124
<b>Exercise 2</b>	24-Hour Clock .....	126
<b>Exercise 3</b>	Distance And Speed .....	132
<b>Exercise 4</b>	Average Speed .....	134
<b>Exercise 5</b>	Word Problems .....	137
 <b>Something More Exciting</b>	.....	142
 <b>What Do You Remember?</b>	.....	142

Unit 8**Volume Of Cubes And Cuboids**

<b>Exercise 1</b>	Drawing Cubes And Cuboids .....	143
<b>Exercise 2</b>	Measuring Volume .....	147
<b>Exercise 3</b>	Finding Cubes And Cube Roots .....	152
<b>Exercise 4</b>	Volume Of A Cuboid And Of Liquid .....	154
<b>Exercise 5</b>	More Volume Of Solids .....	163
<b>Exercise 6</b>	More Volume Of Liquids .....	168
<b>Exercise 7</b>	Rate of Flow .....	172
<b>Exercise 8</b>	Nets Of Cubes And Cuboids .....	176
 <b>Something More Exciting</b>	.....	179
 <b>What Do You Remember?</b>	.....	179

Unit 9**Tables And Line Graphs**

<b>Exercise 1</b>	Presenting And Interpreting Data In A Table .....	180
<b>Exercise 2</b>	More Tables .....	184
<b>Exercise 3</b>	Line Graphs .....	187
 <b>Something More Exciting</b>	.....	191
 <b>What Do You Remember?</b>	.....	191

## Exercise 1 Numbers To 10 Million

1 Count in millions, hundred thousands, ten thousands, thousands, hundreds, tens and ones. Fill in the boxes.

a

100 000	10 000	1000	100	1	100 000, ... <input type="text"/> , ... 210 000, ... <input type="text"/> , ...
100 000	10 000	1000	100		221 000, ... 222 000, ... 223 000, ... <input type="text"/> , ...
		1000	100		225 000, ... 225 100, ... <input type="text"/> , ...
		1000			<input type="text"/> <input type="text"/>
		1000			

b

1 000 000	100 000	10 000	10	1 000 000, ... 2 000 000, ... <input type="text"/> , ...
1 000 000	100 000	10 000	10	3 100 000, ... <input type="text"/> , ... 3 210 000, ...
1 000 000		10 000	10	<input type="text"/> , ... <input type="text"/> , ... 3 230 010,
			10	<input type="text"/> , ... <input type="text"/> , ... <input type="text"/>

c

1 000 000	1000	1	1 000 000, ... 2 000 000, ... <input type="text"/> , ... <input type="text"/> , ...
1 000 000	1000	1	4 001 000, ... <input type="text"/> , ... <input type="text"/> , 4 003 001,
1 000 000	1000	1	<input type="text"/> <input type="text"/> <input type="text"/>
1 000 000		1	

2 Count and write each number in numerals.

a

100 000	10 000	1000	10
100 000		1000	10
100 000		1000	
100 000		1000	
100 000		1000	
100 000		1000	
100 000		1000	
100 000		1000	
		1000	

b

1 000 000	100 000	10 000	1000	100	10
1 000 000	100 000	10 000	1000	100	10
1 000 000	100 000	10 000	1000		10
1 000 000	100 000	10 000			10
1 000 000	100 000	10 000			10
1 000 000		10 000			10
1 000 000		10 000			
1 000 000					
1 000 000					

c

1 000 000	10 000	1
1 000 000	10 000	1
1 000 000	10 000	
1 000 000	10 000	
1 000 000	10 000	
1 000 000	10 000	
	10 000	

d

1 000 000	100 000	100
1 000 000	100 000	100
1 000 000	100 000	100

\* 3 Fill in the boxes with the correct numbers.

- a 30 hundreds =  thousands
- b 100 hundred thousands =  millions
- c 2 millions =  hundred thousands

\* 4 Fill in the boxes with the correct words.

- a 500 thousands = 5
- b 640 ten thousands = 64
- c 4000 thousands = 4

5 Write each number in words.

- a 158 620
- b 709 079
- c 2 506 303
- d 6 225 764
- e 8 480 135
- f 4 099 047

6 Write each number in numerals.

- a Two hundred and fifty-six thousand, three hundred and ten
- b Four million, three hundred and seventy-two thousand, four hundred and seventy-seven
- c Eight million, six hundred and ninety thousand, one hundred and eighty-six
- d Five million, sixteen thousand and twenty
- e Nine million, nine hundred and ninety-nine thousand, nine hundred and ninety-nine
- f Six million, six thousand and six

7 Ben wrote the following in numerals. Spot the mistake in each of Ben's answers. Write the correct answers in the blanks below.

- |  |  |
|--|--|
|  | <b>Bens' Answers</b>                   |
| a Five million, five thousand and forty-five | <input type="text" value="5 005 450"/> |
| b Nine million and ninety                    | <input type="text" value="9 000 099"/> |
| c 50 thousands                               | <input type="text" value="500 000"/>   |

**Correct answers:**

- a
- b
- c

## Exercise 2 Place And Value

1 Fill in the boxes.

a A mall had 612 596 customers in the month of June.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
6	1	2	5	9	6

The digit  is in the hundred thousands place and has a value of .

The digit  is in the ten thousands place and has a value of .

The digit  is in the thousands place and has a value of .

The digit  is in the hundreds place and has a value of .

The digit  is in the tens place and has a value of .

The digit  is in the ones place and has a value of .

b The airport recorded 3 061 852 visitors to Jakarta in the month of December.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	0	6	1	8	5	2

The digit  is in the millions place and has a value of .

The digit  is in the hundred thousands place and has a value of .

The digit  is in the ten thousands place and has a value of .

The digit  is in the thousands place and has a value of .

The digit  is in the hundreds place and has a value of .

The digit  is in the tens place and has a value of .

The digit  is in the ones place and has a value of .

2 Look at the number 5 876 411. Fill in the boxes.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
5	<input type="text"/>	7	<input type="text"/>	<input type="text"/>	<input type="text"/>	1

b The digit  is in the millions place.

c The digit 8 has a value of .

d The value of the digit 6 is .

e The digit  is in the hundreds place.

3 Look at the number 4 783 505. Fill in the boxes.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

b The digit  is in the hundred thousands place.

c The value of the digit 8 is .

d The digit 4 has a value of .

e The digit in the tens place is .

4 Write the value of each digit in 1 942 036.

a The value of the digit 1 is .

b The value of the digit 9 is .

c The value of the digit 4 is .

d The value of the digit 2 is .

- e The value of the digit 0 is .
- f The value of the digit 3 is .
- g The value of the digit 6 is .

5 What is the value of the digit 6 in the following numbers?

- a 654 312
- b 3 146 025
- c 5 062 341
- d 6 213 504

6 Fill in the boxes.

- a  $333\,456 = 300\,000 + \text{} + 3000 + 400 + 50 + 6$
- b  $8\,155\,003 = \text{} + 100\,000 + 50\,000 + 5000 + 3$
- c  $\text{} + 9000 + 400 + 20 + 7 = 209\,427$
- d  $1\,000\,000 + 300\,000 + \text{} = 1\,300\,600$
- e  $4\,060\,080 = 4\,000\,000 + \text{} + 80$
- f  $680\,359 = 680\,000 + \text{}$
- g  $\text{} + 520 = 700\,520$
- h  $5\,000\,000 + \text{} + 920 = 5\,101\,920$

### Exercise 3 Multiplying By Tens, Hundreds And Thousands

1 Multiply.

- a  $6 \times 10 = \text{}$
- b  $23 \times 10 = \text{}$
- c  $529 \times 10 = \text{}$
- d  $9645 \times 10 = \text{}$

2 Multiply.

- a  $5 \times 100 = \text{}$
- b  $44 \times 100 = \text{}$
- c  $888 \times 100 = \text{}$
- d  $3404 \times 100 = \text{}$

3 Multiply.

- a  $3 \times 1000 = \text{}$
- b  $16 \times 1000 = \text{}$
- c  $613 \times 1000 = \text{}$
- d  $8204 \times 1000 = \text{}$

4 Multiply.

- a  $37 \times 10 = \text{}$
- b  $765 \times 10 = \text{}$
- $37 \times 100 = \text{}$
- $765 \times 100 = \text{}$
- $37 \times 1000 = \text{}$
- $765 \times 1000 = \text{}$
- c  $2526 \times 10 = \text{}$
- d  $10 \times 412 = \text{}$
- $2526 \times 100 = \text{}$
- $100 \times 412 = \text{}$
- $2526 \times 1000 = \text{}$
- $1000 \times 412 = \text{}$

5 Fill in the missing numbers.

a  $28 \times \square = 2800$

b  $632 \times \square = 632\ 000$

c  $\square \times 10 = 8700$

d  $\square \times 1000 = 71\ 000$

e  $2430 \times \square = 24\ 300$

f  $\square \times 3200 = 320\ 000$

g  $\square \times 100 = 54\ 000$

h  $100 \times \square = 96\ 300$

6 Multiply.

a  $23 \times 30$   
 $= 23 \times \square \times 10$   
 $= \square \times 10$   
 $= \square$

b  $52 \times 70$   
 $= 52 \times \square \times \square$   
 $= \square \times \square$   
 $= \square$

c  $143 \times 80 = \square$

d  $1565 \times 50 = \square$

7 Multiply.

a  $9 \times 700$   
 $= 9 \times \square \times 100$   
 $= \square \times 100$   
 $= \square$

b  $66 \times 200$   
 $= 66 \times \square \times \square$   
 $= \square \times \square$   
 $= \square$

c  $870 \times 800 = \square$

d  $6300 \times 400 = \square$

8 Multiply.

a  $7 \times 3000$   
 $= 7 \times \square \times 1000$   
 $= \square \times 1000$   
 $= \square$

b  $39 \times 2000$   
 $= 39 \times \square \times \square$   
 $= \square \times \square$   
 $= \square$

c  $460 \times 5000 = \square$

d  $1352 \times 4000 = \square$

9 Find the products.

	a 23	b 392	c 2035
$\times 20$			
$\times 200$			
$\times 2000$			

10 Find the products.

a 32 and 40

b 60 and 490

c 247 and 500

d 200 and 1536

e 41 and 6000

f 700 and 8000

## Exercise 4 Dividing By Tens, Hundreds And Thousands

1 Divide.

a  $80 \div 10 =$

b  $210 \div 10 =$

c  $5700 \div 10 =$

d  $60\,400 \div 10 =$

2 Divide.

a  $700 \div 100 =$

b  $2000 \div 100 =$

c  $14\,600 \div 100 =$

d  $900\,000 \div 100 =$

3 Divide.

a  $8000 \div 1000 =$

b  $71\,000 \div 1000 =$

c  $835\,000 \div 1000 =$

d  $5\,000\,000 \div 1000 =$

4 Divide.

a  $45\,000 \div 10 =$

b  $88\,000 \div 10 =$

$45\,000 \div 100 =$

$88\,000 \div 100 =$

$45\,000 \div 1000 =$

$88\,000 \div 1000 =$

c  $90\,000 \div 10 =$

d  $549\,000 \div 10 =$

$90\,000 \div 100 =$

$549\,000 \div 100 =$

$90\,000 \div 1000 =$

$549\,000 \div 1000 =$

5 Fill in the missing numbers.

a  $1000 \div 10 = \square$

b  $25\,000 \div 100 = \square$

c  $42\,000 \div 10 = \square$

d  $33\,450 \div \square = 3345$

e  $8000 \div \square = 8$

f  $95\,000 \div \square = 950$

g  $360\,000 \div \square = 3600$

h  $\square \div 1000 = 525$

6 Divide.

a $450 \div 50$ $= 450 \div \square \div 5$ $= \square \div 5$ $= \square$	b $7000 \div 70$ $= 7000 \div \square \div \square$ $= \square \div \square$ $= \square$
c $810 \div 90 = \square$	d $6480 \div 80 = \square$
e $42\,000 \div 60 = \square$	f $35\,000 \div 50 = \square$

7 Divide.

a $900 \div 300$ $= 900 \div \square \div 3$ $= \square \div 3$ $= \square$	b $8800 \div 800$ $= 8800 \div \square \div \square$ $= \square \div \square$ $= \square$
c $6000 \div 200 = \square$	d $400\,000 \div 400 = \square$
e $49\,200 \div 600 = \square$	f $630\,000 \div 900 = \square$

8 Divide.

a $3000 \div 3000$ $= 3000 \div \square \div 3$ $= \square \div 3$ $= \square$	b $48\,000 \div 6000$ $= 48\,000 \div \square \div \square$ $= \square \div \square$ $= \square$
---	---



## Something More Exciting

Use the digits 2, 5, 6, 3, 0, 8 and 7 to form

- a the greatest 7-digit even number.
- b the smallest 7-digit odd number.

c $42\ 000 \div 7\ 000 =$ <input type="text"/>	d $65\ 000 \div 5\ 000 =$ <input type="text"/>
e $320\ 000 \div 8\ 000 =$ <input type="text"/>	f $558\ 000 \div 9\ 000 =$ <input type="text"/>

## What Do You Remember?



Think of a 7-digit number.  
Write the number in numerals and in words.  
Write the value of each digit in the number.

Form another 7-digit number.  
Compare the two numbers. Which is greater?

Form another three 7-digit numbers.  
Arrange all the five numbers you have formed in ascending order.  
Round each number to the nearest thousand.  
Estimate the sum and difference of any two of the numbers.  
Now, exchange your working and answers with your partner.  
Check the accuracy of each other's work.  
How did you fare? 😊

9 Divide.

	a 36 000	b 84 000
$\div 40$		
$\div 400$		
$\div 4000$		