Online onlineresources.sapgrp.com

Learning MATHS 1A

Reviewed and recommended by Teachers and Parents

SAMPLE

Author
Tina Myung
Dip.Ed.

Executive Editor
Chelsea Cheh

NAME : _____

CLASS : _____



Learning Maths Book 1A

New Edition 2018

© Singapore Asia Publishers Pte Ltd

Published and Distributed by:

Singapore Asia Publishers Pte Ltd
219 Henderson Road #10-04
Henderson Industrial Park
Singapore 159556
Tel : +65 6276 8280
Fax : +65 6276 8292
Email: info.sg@sapgrp.com
Website: www.sapgrp.com
Facebook: Singapore-Asia-Publishers

ALL RIGHTS RESERVED
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publishers.

ISBN-13 978-981-274-232-2
ISBN-10 981-274-232-8

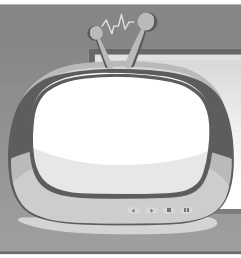
Printed under licence in Australia by Five Senses Education Pty Ltd

SAP Global Partners' Network:

Antigua & Barbuda	Ghana	Namibia	Saint Lucia
Australia	Grenada	Nepal	Saint Vincent & the Grenadines
Bahrain	Guyana	New Zealand	South Africa
Bangladesh	Hong Kong	Nigeria	South Korea
Barbados	India	Pakistan	Syria
Bhutan	Indonesia	Papua New Guinea	Taiwan
Bostwana	Jamaica	Philippines	Tanzania
Brazil	Japan	Poland	Thailand
Brunei	Laos	Portugal	Trinidad & Tobago
Cambodia	Lebanon	Qatar	United Arab Emirates
Canada	Macau	Rwanda	United Kingdom
Chile	Malaysia	Saudi Arabia	United States of America
China	Malawi	Seychelles	Vietnam
Colombia	Maldives	Singapore	Zambia
Egypt	Mauritius	Solomon Islands	Zimbabwe
Fiji Island	Myanmar	Sri Lanka	

For international business enquiries, email **ibg@sapgrp.com**

SAMPLE



PREFACE

Learning Maths Book 1A is a comprehensive workbook that provides students with ample practice on various mathematics question types. How is the book helpful to students?

Summary of Learning Outcomes
Refer to the overview of the topics in the book which sets the pace for learning each topic.

Formulae Sheet
Check and recall the essential and critical mathematical formulae and information for each topic.

Free Online Activities
Go online to try the fun activities. Refer to the Contents page to access them.

Topical Exercises
Work on these questions as you learn and become familiar with various question types.

Revision Papers
Test yourself. This is the best way to assess your understanding of the topics taught and learnt.

Non-routine Questions
Understand the heuristics better. Try these non-routine questions to develop your thinking and analytical skills.

Step-by-step Solutions
Learn from the carefully worked out solutions included at the back of the book.

Through this comprehensive workbook, students can gain a thorough understanding of the mathematical concepts, hone their problem-solving skills and develop creative and critical thinking skills. This book will inspire confidence as the student progresses.

Tina Myung
Dip. Ed.

SAMPLE

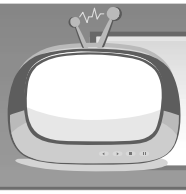
CONTENTS

❶ Log on to onlineresources.sapgrp.com
❷ Click on the title of the book.
❸ Key in the 13-digit ISBN of this book (found on back cover).



Summary of Learning Outcomes ---------- (i)
Formulae Sheet ---------- (ii)
Unit 1 Numbers within 10 ---------- 1
Unit 2 Fun with Number Bonds ---------- 11
REVISION 1 ---------- 16
Unit 3 Adding Numbers within 10 ---------- 20
Unit 4 Subtracting Numbers within 10 ---------- 28
REVISION 2 ---------- 37
Unit 5 Shapes and Patterns ---------- 42
Unit 6 Ordinal Numbers ---------- 48
REVISION 3 ---------- 54
Unit 7 Numbers within 20 ---------- 57
Unit 8 Adding and Subtracting Numbers within 20 ---------- 63
Unit 9 Length ---------- 71
REVISION 4 ---------- 76
FINAL REVISION ---------- 80
NON-ROUTINE QUESTIONS
Thinking Skill: Comparing ---------- 86
Story Sums ---------- 86
SOLUTIONS ---------- 91

SAMPLE



LEARNING OUTCOMES

Unit 1 Numbers within 10
Students should be able to
- count numbers from 1 to 10
- read and write numbers within 10 in numerals and words
- match numerals to words from 1 to 10
- compare and arrange numbers in the correct order
- complete number patterns

Unit 2 Fun with Number Bonds
Students should be able to
- make number bonds
- complete number bonds by filling in the missing parts

Revision 1
This revision paper tests a student's understanding of Units 1 & 2.

Unit 3 Adding Numbers within 10
Students should be able to
- add by counting on
- add using number bonds
- make addition sentences
- solve one-step addition story sums

Unit 4 Subtracting Numbers within 10
Students should be able to
- subtract by crossing out, counting on, counting backwards and using number bonds
- make subtraction sentences
- make a string of addition and subtraction sentences
- solve one-step subtraction story sums

Revision 2
This revision paper tests a student's understanding of Units 3 & 4.

Unit 5 Shapes and Patterns
Students should be able to
- identify and recognise squares, rectangles, circles and triangles
- complete the patterns

Unit 6 Ordinal Numbers
Students should be able to
- understand ordinal numbers like first, second, third, fourth, etc
- use symbols like 1st, 2nd, 3rd, 4th, etc
- understand the left and right positions

Revision 3
This revision paper tests a student's understanding of Units 5 & 6.

Unit 7 Numbers within 20
Students should be able to
- know numbers from 1 to 20 in numerals and words
- know the place value within 20
- compare and arrange numbers within 20
- complete number patterns

Unit 8 Adding and Subtracting Numbers within 20
Students should be able to
- add and subtract numbers within 20
- use number bonds to make a ten when adding and subtracting numbers
- solve one-step story sums related to addition and subtraction

Unit 9 Length
Students should be able to
- measure and compare length
- understand the meaning of words like 'tall', 'taller', 'tallest', 'short', 'shorter', 'shortest', 'long', 'longer', 'longest', 'high', 'higher' and 'highest'
- understand the left and right positions

Final Revision
This revision paper is an excellent assessment of a student's understanding of all the topics in this book.

SAMPLE

FORMULAE SHEET

Unit 1 Numbers within 10

Numerals	Words	Pictorial representation
1	one	
2	two	
3	three	
4	four	
5	five	
6	six	
7	seven	
8	eight	
9	nine	
10	ten	

Comparing numbers

- Count the number in each set.
- When there are equal numbers in both sets, use the word **'same'** to describe them.
- When one set is more than the other one, use the words **'more'** or **'greater'** to describe it.
- When one set is less than the other one, use the words **'fewer'** or **'smaller'** to describe it.

When a sum requires you to find a number more than, count on to find the answer.
Example: What is 1 more than 2?

1, 2, 3
1 more than 2 is **3**.

When a sum requires you to find a number less than, count backwards to find the answer.
Example: What is 1 less than 9?

1, 2, 3, 4, 5, 6, 7, 8, 9
1 less than 9 is **8**.

Number patterns

- To complete a number pattern, you must be familiar with the numbers from 1 to 10 in the correct order.
- Take note of the order in the number pattern when working to complete it.

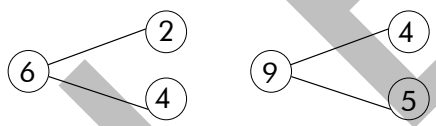
  1, 2, 3, 4, 5, 6, 7, 8, 9, 10 (increasing order)

  10, 9, 8, 7, 6, 5, 4, 3, 2, 1 (decreasing order)

Unit 2 Fun with Number Bonds

Two small numbers can make one big number.
Examples: **2** and **4** make 6.
4 and **5** make 9.

We can interpret the two number sentences as number bonds.



For each number bond, the circle on the left is known as the whole. The two circles on the right are known as the parts.

Number bonds can also be broken down into three parts.

Number bonds are useful because they can be broken down into smaller numbers for easy addition or subtraction.

Unit 3 Adding Numbers within 10

To add is to find the total number of items.

Some keywords are related to addition. They are add, plus, more than, sum, altogether, in all and total.

There are two ways to add numbers:

- Counting on
- Number bonds

Below is an addition grid that you may find it useful.

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

SAMPLE

Unit 4 Subtracting Numbers within 10

To subtract is to find the number of items left after removing some of them.

Some keywords are related to subtraction. They are subtract, minus, less than and take away.

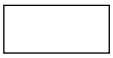
There are four ways to subtract numbers:

- Crossing out
- Counting on
- Counting backwards
- Number bonds

Below is a subtraction grid that you may find it useful.

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

Unit 5 Shapes and Patterns



A rectangle has four sides.



A square has four equal sides.



A triangle has three sides.



A circle is round.

We can see changes in size, shape, colour, and even position in a pattern.

When completing a pattern, we have to be observant to see how the pattern repeats.

Unit 6 Ordinal Numbers

1st	2nd	3rd	4th	5th
first	second	third	fourth	fifth

6th	7th	8th	9th	10th
sixth	seventh	eighth	ninth	tenth

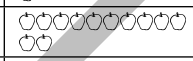
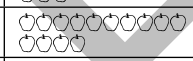
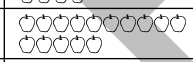
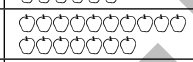
before: the position in front
Example: 4th is before 5th.

after: the position behind
Example: 9th is after 8th.

between: in the centre of two items
Example: 6th is between 5th and 7th.

We can count things from the left or right positions.

Unit 7 Numbers within 20

Numerals	Words	Pictorial representation
11	eleven	
12	twelve	
13	thirteen	
14	fourteen	
15	fifteen	
16	sixteen	
17	seventeen	
18	eighteen	
19	nineteen	
20	twenty	

Place value

We can group numbers greater than 10 into tens and ones.
Example: 18 = **1** ten **8** ones

Number patterns

When completing number patterns, we have to

1. see if the number pattern is in an increasing or a decreasing order,
2. observe the difference between each number,
3. add or subtract to get the next number.

Number order

When arranging numbers in order, we have to see if the numbers start with the smallest or the biggest.

Unit 8 Adding and Subtracting Numbers within 20

There are two ways to add numbers within 20:

- Making a group of 10
- Regrouping one of the addends into tens and ones using number bonds

To subtract numbers within 20, we can regroup the minuend into tens and ones using number bonds.

Unit 9 Length

When measuring the length of things, make sure that they are placed on the same starting line. In this way, the measurement will be accurate and we will be able to identify the longest or the shortest length.

SAMPLE

SAMPLE

1 NUMBERS WITHIN 10

Examples

1. Count the number of toy cars. Write in number and word.



7 **seven**

2. Read and compare the numbers.

6 8

6 is smaller than **8**.

8 is greater than **6**.

3. Complete the number pattern.

3, 4, ___, ___, 7, 8

5, 6

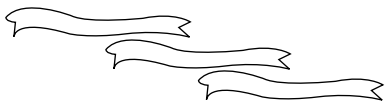
4. What is 1 less than 10?



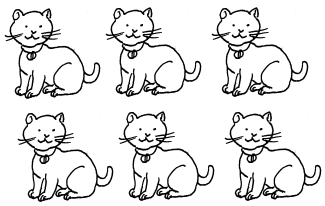
9 is 1 less than 10.

SAMPLE

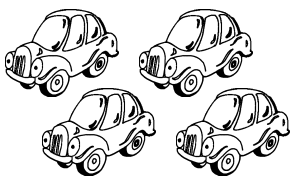
Count and write the numbers on the lines provided.

1. 

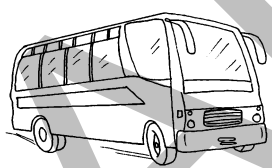
_____ ribbons

2. 

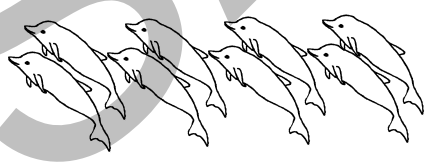
_____ cats

3. 

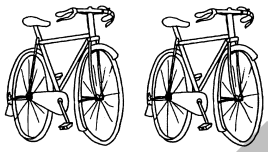
_____ cars

4. 

_____ bus

5. 

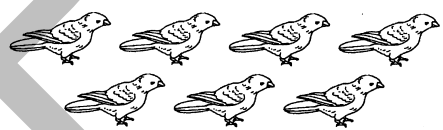
_____ dolphins

6. 

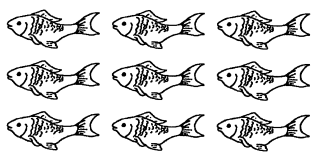
_____ bicycles

7. 

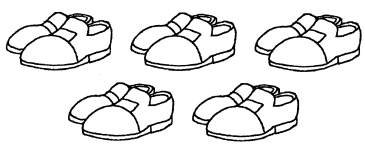
_____ flowers

8. 

_____ birds

9. 

_____ fish

10. 

_____ shoes

SAMPLE

Read each sentence carefully and complete the drawing.

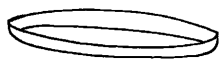
11. The cat has 1 tail.



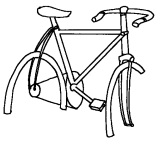
12. There are 3 flowers in the vase.



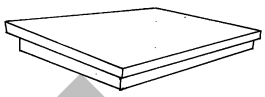
13. There are 6 oranges on this plate.



14. The bicycle has 2 wheels.



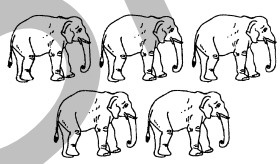
15. The table has 4 legs.

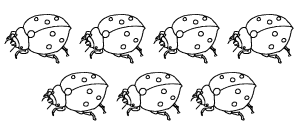


Count the number of each object and circle the correct word.

16.  one three five

17.  seven eight nine

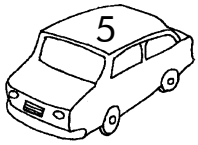
18.  four five ten

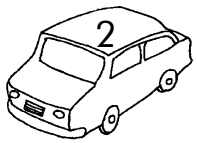
19.  six seven ten

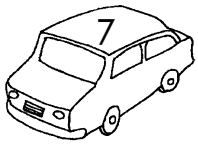
SAMPLE

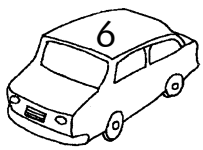
20.  two three four

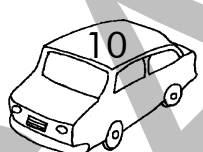
21. Match each car to the correct garage.

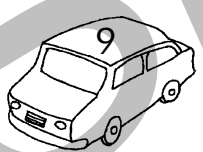


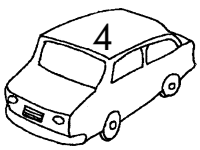


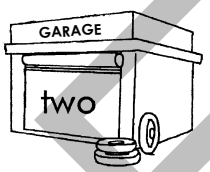


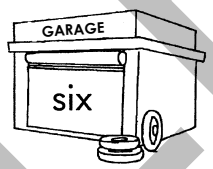


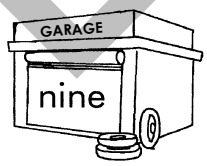


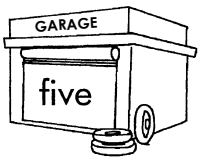


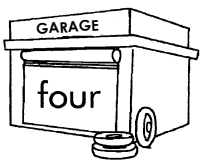


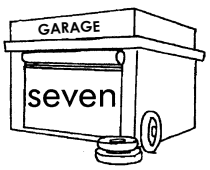


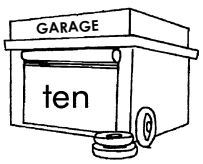








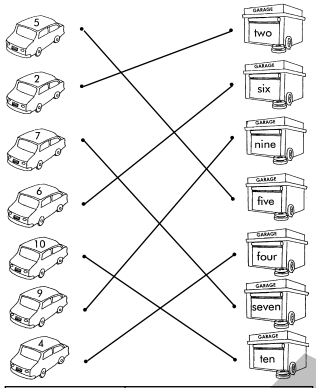


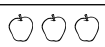
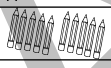


SAMPLE

SOLUTIONS
Learning Maths 1A

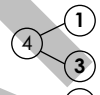
Unit 1: Numbers within 10

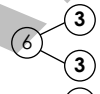
1. **3**
2. **6**
3. **4**
4. **1**
5. **8**
6. **2**
7. **5**
8. **7**
9. **9**
10. **10**
11. 
12. 
13. 
14. 
15. 
16. **three**
17. **eight**
18. **five**
19. **seven**
20. **four**
21. 

22.	3 apples	
23.	6 balls	
24.	8 fish	
25.	7 stars	
26.	10 pencils	

27. **more**, **fewer**
There are 6 boys and 4 bicycles.
28. **flowers**, **trees**
trees, **flowers**
There are 3 trees and 6 flowers.
29. **more**, **fewer**
There are 6 oranges and 4 apples.
30. **fewer**, **more**
There are 3 shirts and 4 skirts.
31. **boys**, **girls**
girls, **boys**
There are 3 girls and 7 boys.
32. **4**
4 is smaller than 6.
33. **8**
8 is smaller than 10.
34. **1**
1 is smaller than 3.
35. **7**
7 is smaller than 9.
36. **2**
2 is smaller than 5.
37. **8**
8 is greater than 6.
38. **4**
4 is greater than 3.
39. **9**
9 is greater than 7.
40. **5**
5 is greater than 2.
41. **8**
8 is greater than 1.
42. **4**, **8**
Count 4, 5, 6, 7 and 8.
43. **3**, **4**
Count 2, 3, 4, 5 and 6.
44. **7**, **5**
Count 8, 7, 6, 5 and 4.
45. **5**, **1**
Count 5, 4, 3, 2 and 1.
46. 2 + 1 = **3**
47. 7 + 1 = **8**
48. 3 + 1 = **4**
49. 1 + 1 = **2**
50. 4 + 1 = **5**
51. 8 + 1 = **9**
52. 5 + 1 = **6**
53. 2 + 1 = **3**
54. 7 – 1 = **6**
55. 4 – 1 = **3**
56. 8 – 1 = **7**
57. 2 – 1 = **1**
58. 3 – 1 = **2**
59. 6 – 1 = **5**
60. 9 – 1 = **8**
61. 5 – 1 = **4**
62. **10, nine, 8, seven, 6, five, 4, three, 2, one, 10**

Unit 2: Fun with Number Bonds

1. 

2. 

3. 

4. 

5. 

7. 

8. 

9. 

10. 

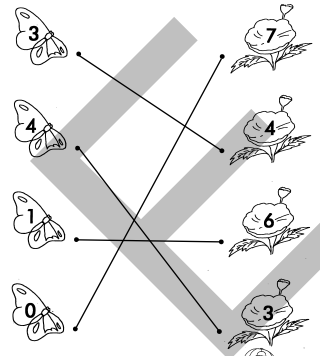
11. 

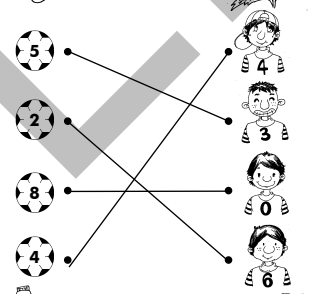
12. 

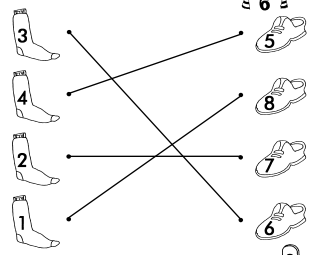
13. 

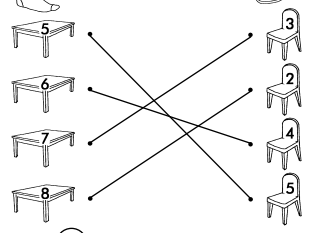
14. 

15. 

16. 

17. 

18. 

19. 

20. 

3 and 2 make 5.
21. 

6 and 2 make 8.
22. 

3 and 7 make 10.
23. 

5 and 0 make 5.

SAMPLE

© SAP Group Pte Ltd • ALL RIGHTS RESERVED •