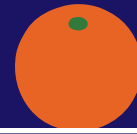


Dimensions Math[®] PK–5 Curriculum



From the company that
brought it to you first!



A refreshed, accessible
Singapore Math[®] program from
the people who know it best.

Dimensions Math® PK–5 is the latest Singapore Math® curriculum from the people who know it best. We’ve refined aspects of the Singapore math method to better meet the needs of today’s students and educators while preserving the core of this unique approach.

Written by a team of educators and experts with more than 100 years of combined classroom experience, it is a rigorous and engaging curriculum that provides a deep elementary math foundation. The price of the series reflects our belief that an excellent math education should be accessible to all.



Why Singapore Math?

Proven results!



The Singapore math approach is a highly effective teaching approach based on research of math mastery in Singapore, which consistently ranks at the top in international math testing.

Our Singapore Math® curriculums aim to raise U.S. student performance internationally and at home on standardized and state assessments.

| TIMSS | Grade 4 | | | |
|-------|--------------------|----------------|------------------------|---------------|
| | 50 | 80 | 93 | 99 |
| | Advanced Benchmark | High Benchmark | Intermediate Benchmark | Low Benchmark |
| | 14 | 47 | 79 | 95 |

| PISA | Share of Low Performers | Share of Average Performers | Share of Top Performers |
|------|-------------------------|-----------------------------|-------------------------|
| | MAX | MAX | MAX |
| MIN | MIN | MIN | |

- Singapore
- United States

The Approach

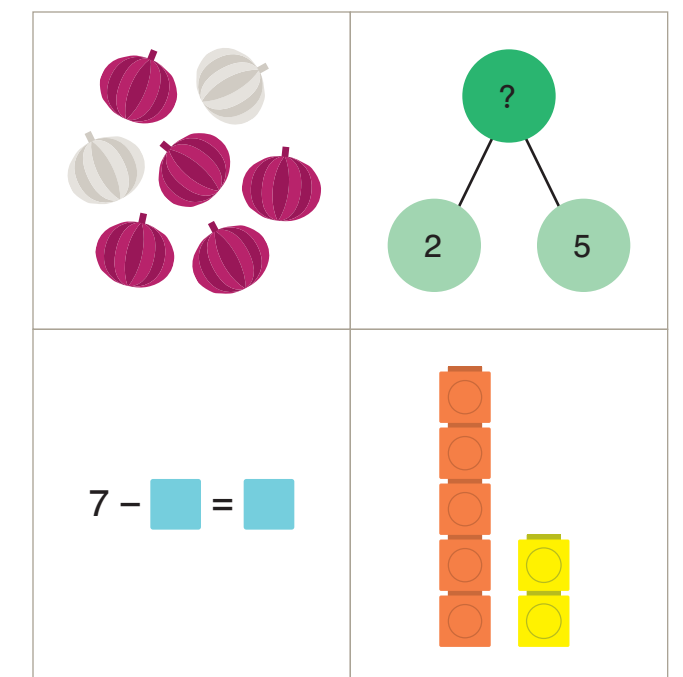
The intentional progression of concepts in the Singapore math approach instills a deep understanding of mathematical thinking. Key features include:

CPA (Concrete Pictorial Abstract) Approach: Introduces concepts in a tangible way and progresses to increasing levels of abstraction.

Number Bonds: Shows the part-whole relationship between numbers.

Bar Modeling: Helps students visualize a range of math concepts, such as fractions, ratios, and percentages. Allows students to determine the knowns and unknowns in a given situation.

Mental Math: Helps students develop number sense and flexibility in thinking about numbers.



Textbooks



Textbook lessons build on prior knowledge and develop concepts in an approachable way. Textbooks A and B for each grade correspond to the two halves of the school year.

- 1 **Think:** Stimulates interest in new concepts through a hands-on activity or problem.
- 2 **Learn:** Presents definitions and fully explains new concepts.
- 3 **Do:** Solidifies and deepens student understanding of concepts.
- 4 **Exercise:** Provides additional problems in the workbook for students to master concepts.
- 5 **Practice:** Provides teachers with opportunities for consolidation, remediation, and assessment.

Lesson 7 Subtract from Tens 7

Think

Dion has 70 pieces of origami paper. He uses 6 of them. How many pieces of origami paper does he have left?

Learn

$70 - 6 =$

$70 - 6 = 64$
60 and 4 make ...

Workbooks & Tests



Workbooks offer independent practice through careful progression of exercise variation. Workbooks A and B for each grade correspond to the two halves of the school year.

Tests help teachers systematically evaluate student progress. They align with the content of textbooks. Grades 1–5 have differentiated assessments: Test A focuses on key concepts and fundamental problem-solving skills, while Test B focuses on the application of analytical skills and heuristics.

Do

1 (a) Subtract 8 from 60.

$60 - 8 =$

(b) Subtract 9 from 90.

$90 - 9 =$

Exercise 7

Basics

1 Subtract.

$10 - 7 =$

$50 - 7 =$

Practice

2 Subtract.

Teacher's Guides & Resources

Teacher's Guides are a comprehensive resource that help teachers understand the purpose of each lesson within the framework of the curriculum. They offer structure for thoughtfully guiding student inquiry, and include detailed teaching notes and activities to achieve lesson objectives.

The extensive Dimensions Math® online resource site includes videos, Blackline Masters, letters home, and more.

Lesson 7 Subtract from Tens

Objective

- Subtract a one-digit number from a multiple of 10.

Lesson Materials

- Linking cubes in tens and ones

Think

Ask students to represent the origami papers Dion has with linking cubes (7 tens). Have them work the problem on their own and share their methods.

If needed, suggest the Subtract from a 10 strategy that students originally learned in **Chapter 13, Lesson 5: Subtract From Tens** that is extended here to numbers to 100.

Learn

Have students discuss how Sofia is thinking about solving this problem. Have students compare her strategy to their own method for solving the **Think** problem.

Provide students with additional problems to solve with the linking cubes.

25 min Score

Name: _____ 30

Date: _____

Test B

Chapter 17 Addition and Subtraction Within 100

Section A (2 points each)
Circle the correct option: A, B, C, or D.

1 Add 4 tens to 5 tens and 6 ones. The answer is _____.

A 11 B 66

C 45 D 96

Ebooks



Textbooks, annotation workbooks, and wrap-around teacher's guides are all on the digital platform. Teachers can plan, prep, assign, and review lessons online. Students can access textbooks and complete workbook assignments through their school's LMS portal.

Chapter 17

Addition and Subtraction Within 100

There are 42 yellow buttons with 2 holes and 5 yellow buttons with 4 holes. How many yellow buttons are there altogether?

There are 31 square green buttons. 6 of them are used. How many square green buttons are left?

Make up other addition and subtraction stories.

Dimensions Math
Grade 1 Letter Home #17
Chapter 17 Addition and Subtraction Within 100

Letters Home

Home Connection

In this chapter, your child will learn to add and subtract 2-digit numbers. In previous chapters, he added a 2-digit number and a 1-digit number by making a 10 and using addition facts. In this chapter, your child will use those strategies and learn to:

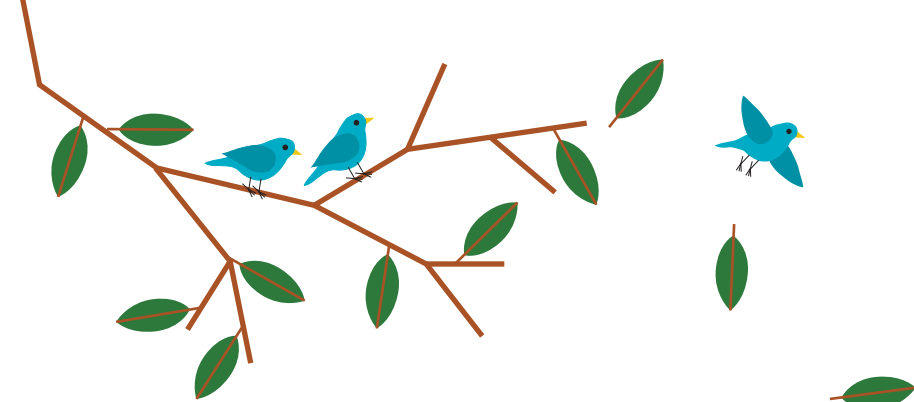
Add tens: Add tens then add ones:

Add 48 and 30. Add 23 and 12.

+

Now we've counted to 10

Scope & Sequence



PKA

- 1 Match, Sort, and Classify
- 2 Compare Objects
- 3 Patterns
- 4 Numbers to 5 — Part 1
- 5 Numbers to 5 — Part 2
- 6 Numbers to 10 — Part 1
- 7 Numbers to 10 — Part 2

PKB

- 8 Ordinal Number
- 9 Shapes and Solids
- 10 Compare Sets
- 11 Compose and Decompose
- 12 Explore Addition and Subtraction
- 13 Cumulative Review

KA

- 1 Match, Sort, and Classify
- 2 Numbers to 5
- 3 Numbers to 10
- 4 Shapes and Solids
- 5 Compare Height, Length, Weight, and Capacity
- 6 Comparing Numbers Within 10

KB

- 7 Numbers to 20
- 8 Number Bonds
- 9 Addition
- 10 Subtraction
- 11 Addition and Subtraction
- 12 Numbers to 100
- 13 Time
- 14 Money

1A

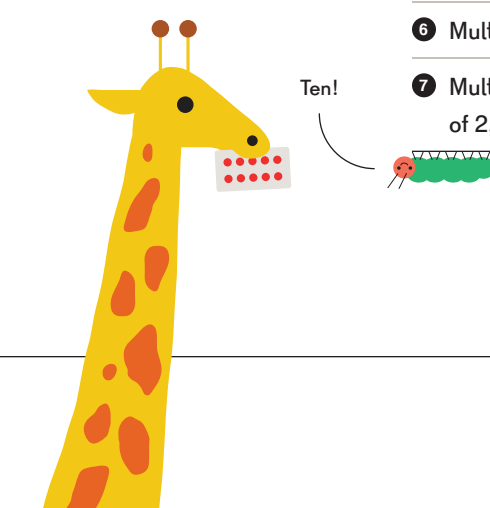
- 1 Numbers to 10
- 2 Numbers Bonds
- 3 Addition
- 4 Subtraction
- 5 Numbers to 20
- 6 Addition to 20
- 7 Subtraction Within 20
- 8 Shapes
- 9 Ordinal Numbers

1B

- 10 Length
- 11 Comparing
- 12 Numbers to 40
- 13 Addition and Subtraction Within 40
- 14 Grouping and Sharing
- 15 Fractions
- 16 Numbers to 100
- 17 Addition and Subtraction Within 100
- 18 Time
- 19 Money

2A

- 1 Numbers to 1,000
- 2 Addition and Subtraction — Part 1
- 3 Addition and Subtraction — Part 2
- 4 Length
- 5 Weight
- 6 Multiplication and Division
- 7 Multiplication and Division of 2, 5, and 10



Throughout the series, five characters offer suggestions to students on how to think about problems and strategies they've learned, while pointing out important information to encourage students to come up with their own solutions.



2B

- 8 Mental Calculation
- 9 Multiplication and Division of 3 and 4
- 10 Money
- 11 Fractions
- 12 Time
- 13 Capacity
- 14 Graphs
- 15 Shapes

3A

- 1 Numbers to 10,000
- 2 Addition and Subtraction — Part 1
- 3 Addition and Subtraction — Part 2
- 4 Multiplication and Division
- 5 Multiplication
- 6 Division
- 7 Graphs and Tables

3B

- 9 Multiplying and Dividing with 6, 7, 8, and 9
- 10 Fractions — Part 1
- 11 Fractions — Part 2
- 12 Geometry
- 13 Area and Perimeter
- 14 Time
- 15 Money

4A

- 1 Numbers to One Million
- 2 Addition and Subtraction
- 3 Multiples and Factors
- 4 Multiplication
- 5 Division
- 6 Fractions
- 7 Adding and Subtracting Fractions
- 8 Multiplying a Fraction and a Whole Number
- 9 Line Graphs and Line Plots

4B

- 10 Measurement
- 11 Area and Perimeter
- 12 Decimals

- 13 Addition and Subtraction of Decimals
- 14 Multiplication and Division of Decimals
- 15 Angles
- 16 Lines and Shapes
- 17 Solid Figures

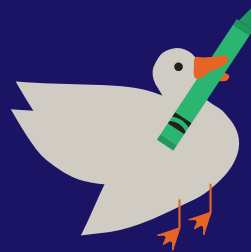
5A

- 1 Whole Numbers
- 2 Writing and Evaluating Expressions
- 3 Multiplication and Division
- 4 Addition and Subtraction of Fractions
- 5 Multiplication of Fractions
- 6 Division of a Fractions
- 7 Measurement
- 8 Volume of Solid Figures

5B

- 9 Decimals
- 10 The Four Operations of Decimals
- 11 Geometry
- 12 Data Analysis and Graphs
- 13 Ratio
- 14 Percentage

Think,
Learn,
Do,
Succeed.



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The latest Singapore Math®
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