



PRIME Mathematics

Based on Singapore Maths and world's best practice

PRIME Tutorial: Getting Started using PR1ME
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NB: To view presenter notes, you may hover your mouse over the top left of each page.



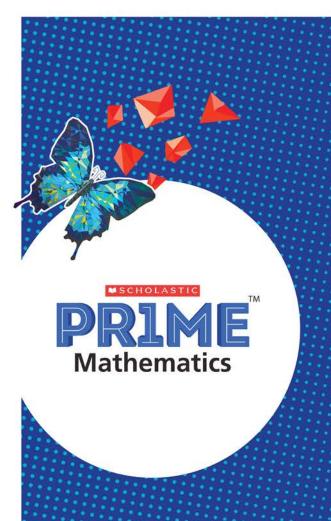
PRIME Mathematics

PROVEN TO BE WORLD'S BEST PRACTICE



- Coursebooks
- Practice Books
- Teacher's Guides
- InteractiveWhiteboard Edition





WHAT IS THE APPROACH USED IN PRIME?



Mathematical strands in PRIME

- Numbers and Operations
- Measurement
- Geometry
- Data Analysis
- Algebra (Years 5 and 6)





Chapter = topic

Coursebook 2A

Chapter 1 Numbers to 1000

Chapter 2 Addition and

Subtraction without

Regrouping

Chapter 3 Addition and

Subtraction with Regrouping

Chapter 4 Length

Chapter 5 Mass

Chapter 6 Multiplication

Chapter 7 Division

Chapter 8 Multiplication

Tables of 2, 5 and 10

Coursebook 2B

Chapter 9 Addition and

Subtraction

Chapter 10 Multiplication

Tables of 3 and 4

Chapter 11 Money

Chapter 12 Fractions

Chapter 13 Time

Chapter 14 Graphs

Chapter 15 Plane Shapes

Chapter 16 Solid Shapes



Developmental continuum

Scope and Sequence

Developmental Continuum

	Year/Grade 1	Year/Grade 2	Year/Grade 3
NUMBERS AND	OPERATIONS		
Whole Numbers / Place Value	Count within 100.	Count within 1000.	Read and write a number within 10 000 — the numeral and the corresponding number word.
	Read and write a number from 0 to 100 — the numeral and the corresponding number word.	Read and write a number from 0 to 1000 — the numeral and the corresponding number word.	Use number notation and place values (thousands, hundreds, tens, ones).
	Count on and backwards within 100.	Use number notation and place values (hundreds, tens, ones).	Compare and order numbers within 10 000.
	Use number notation and place values (tens, ones).	Compare and order numbers within 1000.	Find the number which is 1, 10, 100 or 1000 more than (or less than) a given number within 10 000.
	Estimate the number of objects in a group of fewer than 100 objects.	Use the symbols '>' and '<' for comparison of numbers.	Identify odd and even numbers.
	Compare the number of objects in two or more sets.	Find the number which is 1, 10 or 100 more than (or less than) a given number within 1000.	
	Compare and order numbers within 100.		
	Find the number which is 1 or 10 more than (or less than) a given number within 100.		
	Make a number story to illustrate a number bond for 5 to 10.		
	Write a number bond for 5 to 10.		
	Name a position using an ordinal number from 1st to 10th and position words.		
Addition / Subtraction	Use picture cutouts (or other manipulatives) to illustrate the meanings of addition and subtraction.	Add or subtract within 1000.	Associate the terms 'sum' and 'difference' with addition and subtraction respectively.
	Make a number story for a given addition or subtraction sentence.	Use a part-whole bar model or a comparison bar model to represent an addition or subtraction situation.	Add or subtract within 10 000.
	Write a number sentence for a given situation involving addition or subtraction.	Solve up to 2-step word problems involving addition and subtraction.	Use a part-whole bar model or a comparison bar model to represent an addition or subtraction situation.

	Year/Grade 1	Year/Grade 2	Year/Grade 3
NUMBERS AN	D OPERATIONS (co	ntinued)	
Addition / Subtraction (continued)	Observe the identity and commutative properties of addition.	Find the missing part in an addition sentence.	Solve up to 2-step word problems involving addition and subtraction.
	Observe the answer when 0 is subtracted from a number.	Find the missing part or whole in a subtraction sentence.	Mentally add two 2-digit whole numbers with regrouping.
	Write a family of four addition and subtraction facts for a given number bond.	Mentally add: a 1-digit whole number to a 2-digit whole number with regrouping 1 wo 2-digit whole numbers without regrouping ones, tens or hundreds to a 3-digit whole number 98 or 99 to a number up to 3 digits	Mentally subtract a 2-digit whole number from another 2-digit whole number with regrouping.
	Identify a doubles fact.	Mentally subtract: - a 1-digit whole number from a 2-digit whole number with regrouping - a 2-digit whole number from another 2-digit whole number without regrouping - ones, tens or hundreds from a 3-digit whole number - 98 or 99 to a 3-digit whole number number	
	Add or subtract within 100.		
	Solve a 1-step word problem involving addition or subtraction of numbers within 20.		
	Mentally add: - two or three 1-digit whole numbers - a 1-digit whole number to a 2-digit whole number - tens to a 2-digit whole number		
	Mentally subtract: - a 1-digit whole number from another 1-digit whole number number - a 1-digit whole number from a 2-digit whole number - tens from a 2-digit whole number		



Developmental Continuum

	Year/Grade 1	Year/Grade 2	Year/Grade 3
NUMBERS AND	,		Teal) order o
Whole Numbers / Place Value	Count within 100.	Count within 1000.	Read and write a number within 10 000 — the numeral and the corresponding number word.
	Read and write a numbe from 0 to 100 — the numeral and the corresponding number word.	Read and write a number from 0 to 1000 — the numeral and the corresponding number word.	Use number notation and place values (thousands, hundre ts, tens, ones).
	Count on and backwards within 100.	Use number notation and place values (hundreds, tens, ones).	Compale and order number within 10 000.
	Use number notation at d place values (tens, one).	Compare and order numbers within 1000.	Find the number which is 1, 10, 100 or 1000 more than (or less than) a given number within 10 000.
	Estimate the number of objects in a group of fewer than 100 objects.	Use the symbols '>' and '<' for comparison of numbers.	Identify odd and even numbers.
	Compare the number of objects in two or more sets.	Find the number which is 1, 10 or 100 more than (or less than) a given number within 1000.	
	Compare and order numbers within 100.		
	Find the number which is 1 or 10 more than (or less than) a given number within 100.		
	Make a number story to illustrate a number bond for 5 to 10.		
	Write a number bond for 5 to 10.		
	Name a position using an ordinal number from 1st to 10th and position words.		
Addition / Subtraction	Use picture cutouts (or other manipulatives) to illustrate the meanings of addition and subtraction.	Add or subtract within 1000.	Associate the terms 'sum' and 'difference' with addition and subtraction respectively.
	Make a number story for a given addition or subtraction sentence.	Use a part-whole bar model or a comparison bar model to represent an addition or subtraction situation.	Add or subtract within 10 000.
	Write a number sentence for a given situation involving addition or subtraction.	Solve up to 2-step word problems involving addition and subtraction.	Use a part-whole bar model or a comparison bar model to represent an addition or subtraction situation.

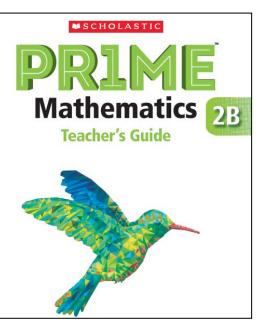
Australian Curriculum: Mathematics

Strand	Sub-strand	Yr		Content Description
Number and Algebra	Number and place value	Yr2	A029	Explore the connection between addition and subtraction
Number and Algebra	Number and place value	Yr2	A0.50	Solve simple addition and subtraction problems using a range of efficient mental and written strategies
Number and Algebra	Number and place value	Yr3	A055	Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation

A detailed curriculum alignment from PRIME to the Australian Curriculum: Mathematics is available.

Chapter introduction





Chapter 9 Addition and Subtraction

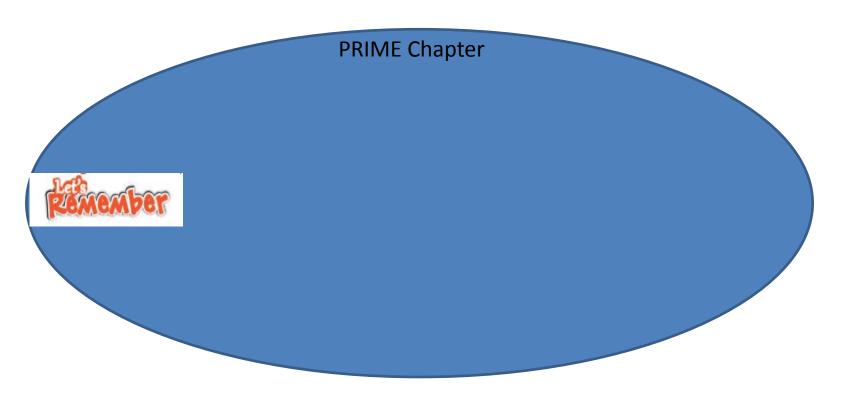
Note for Teachers

In this chapter, students learn how to find missing numbers in addition and subtraction sentences. To do this, they have to possess a firm grasp of the inverse relationship between addition and subtraction. Students also learn how to make 100 with two numbers by counting on or using place value.

Various mental addition and subtraction strategies are introduced here. Students learn how to regroup numbers to help them calculate the answers to addition and subtraction questions. These build upon the concepts of addition or subtraction with and without regrouping. Students may draw number bonds to help them in the initial stages, but eventually, they are expected to be able to do the addition and subtraction independently.











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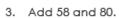


These number sentences form a fact family.



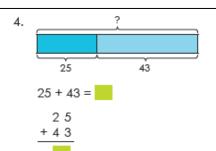
2. Add 52 and 3.











This is a part-whole bar model. We add the parts to find the whole.





5. Subtract 3 from 45.





6. Subtract 30 from 54.

5 tens – 3 tens = ____tens



7. 84

This is a part-whole bar model. We subtract one part from the whole to find the other part.

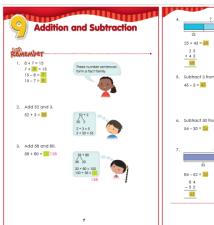


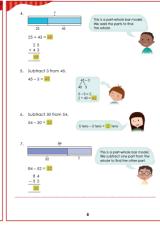


Let's Remember is formative assessment for new learning.

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In the Teacher's Guide, each concept being assessed and where it is taught is identified.

Remember

Recall:

- Writing a family of four addition and subtraction facts (CB 1A Chapter 4)
- 2. Adding a 1-digit number and a 2-digit number without regrouping (CB 1B Chapter 19)
- 3. Adding within 1000 with regrouping (CB 2A Chapter 3)
- 4. Using a part-whole bar model to represent an addition situation (CB 2A Chapter 2)
- 5. Subtracting a 1-digit number from a 2-digit number without regrouping (CB 1B Chapter 19)
- 6. Subtracting tens from a 2-digit number (CB 1B Chapter 19)
- 7. Using a part-whole bar model to represent a subtraction situation (CB 2A Chapter 2)

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PRIME Chapter

PRIME Lesson

Lesson 1 Finding the Missing Number

You will learn to ...

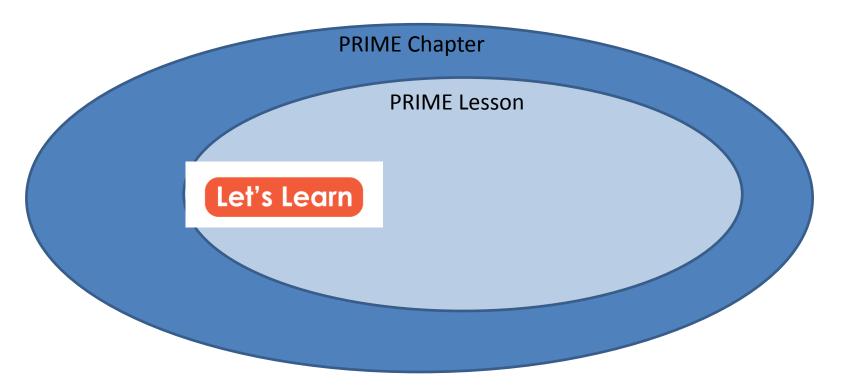
- find the missing number in an addition or subtraction sentence
- make 100

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Lesson 1 Finding the Missing Number

• find the missing number in an addition or subtraction sentence

You will learn to ...

make 100

12 – 7 =

So, 7 + = 12.

Let's Learn

CONCRETE

Finding the missing part in an addition sentence Let's Learn Math Lab part part whole 7 + = 12 7 and make 12. 12 Let's draw a bar model to find the missing part.

To find one part, we subtract.

PICTORIAL

ABSTRACT

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Math Lab

Hands-on CONCRETE experiences

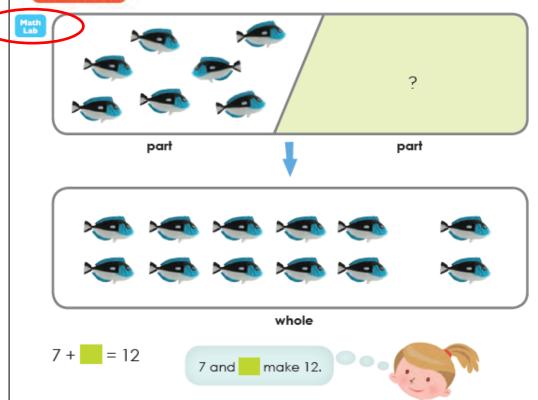
Lesson 1 Finding the Missing Number

You will learn to ...

- find the missing number in an addition or subtraction sentence
- make 100

Finding the missing part in an addition sentence

Let's Learn



Developing metacognition

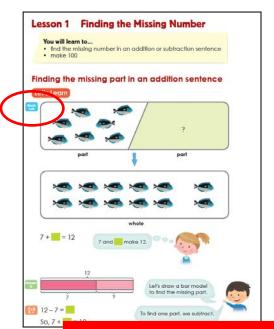


Lesson objectives are clearly stated for students

Finding the Missing Number Lesson 1 You will learn to... · find the missing number in an addition or subtraction sentence make 100 Finding the missing part in an addition sentence Let's Learn Math Lab part part 7 + = 12 7 and make 12.

Thought bubbles model mathematical thinking

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Modelled questions and mathematical thinking.

Let's Learn Finding the missing part in an addition sentence

Objective:

To find the missing part in an addition sentence

Materials:

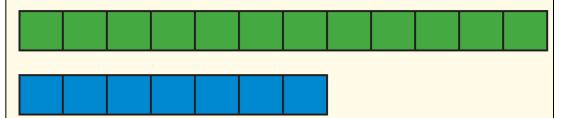
Connecting cubes (blue, red and green)

Resource:

CB: pp. 9–10



Have students get into groups of four. Distribute some connecting cubes (blue, red and green) to each group. Have each group set aside 12 green and 7 blue connecting cubes. Ask them to lay the cubes on their tables as follows:



Ask: How many green cubes are there? (12) How many blue cubes are there? (7) How many red cubes do we need to join to the blue cubes to make 12 cubes? (5) Have each group check by connecting 5 red cubes to the blue cubes.

Say: So, 7 and 5 make 12.

Guide students through the example on CB p. 9.
Relate the activity with the connecting cubes to the

picture in the coursebook.

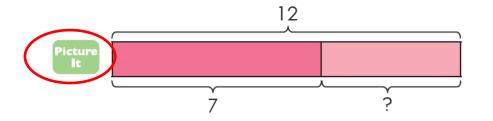
Say: We have 7 fish. We add 5 more fish to get 12 fish.

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PICTORIAL representation



Let's draw a bar model to find the missing part.



To find one part, we subtract.

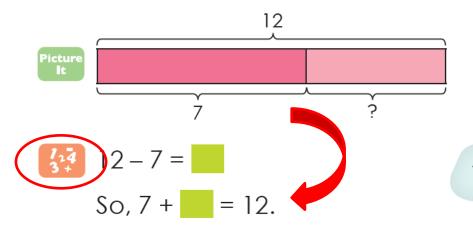
Mathematical thinking is modelled in the speech bubbles

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ABSTRACT notation



Let's draw a bar model to find the missing part.



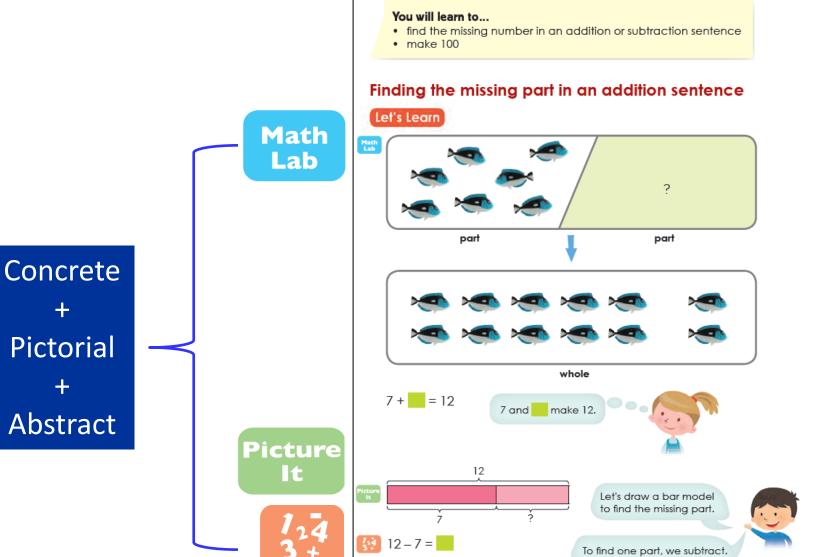
To find one part, we subtract.

Link PICTORIAL to ABSTRACT

Concrete – pictorial – abstract

Lesson 1



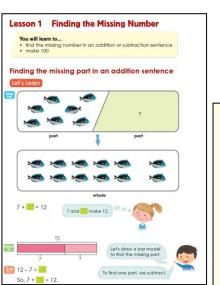


So, 7 + = 12.

Finding the Missing Number

Concrete – pictorial – abstract









Draw the part-whole bar model as shown on CB p. 9.

Write: 7 + _____ = 12

Elicit the answer from students. (5)

Say: To find the missing part, we can also subtract 7 from 12.

Write: 12 - 7 =

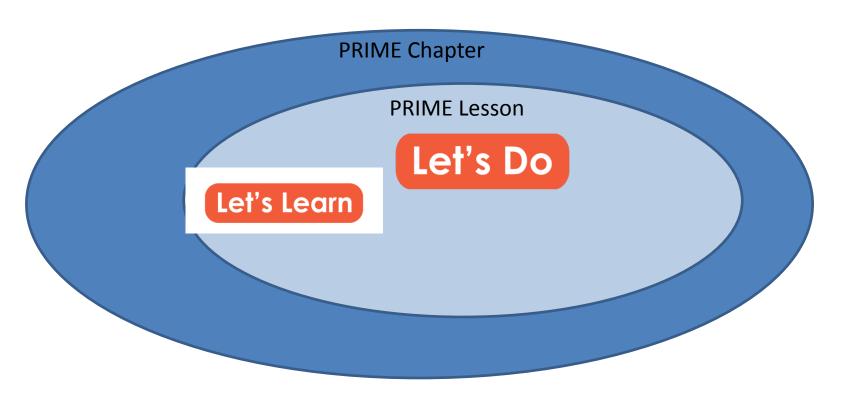
Elicit the answer from students. (5) Have students check by recalling related addition and subtraction facts.

Ask: Are 7 + 5 = 12 and 12 - 7 = 5 from the same fact family? (Yes)

Point out to students that they can use subtraction to find the missing part in an addition sentence.

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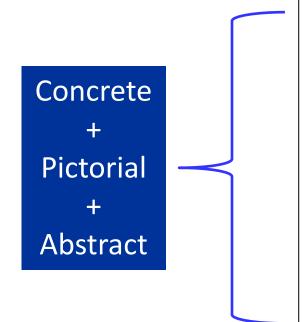




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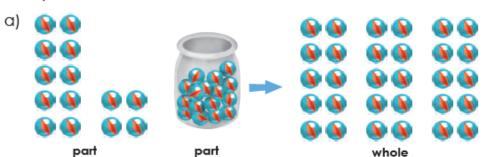
Guided and metacognitive support

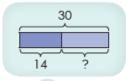


Thought bubbles for mathematical thinking models

Let's Do

Complete the number sentences.



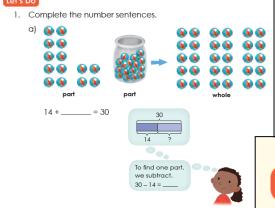


To find one part, we subtract.



Teacher support





- b) 4 + ____ = 13

Let's Do

Task 1 provides practice on finding the missing part in a number sentence using subtraction.

Task 1(a) provides pictorial guidance in the form of a part-whole bar model and demonstrates to students that they can subtract one part from the whole to find the other missing part.

Tasks 1(b)-1(i) require students to find the missing numbers independently. Help students by drawing out the bar models if necessary.

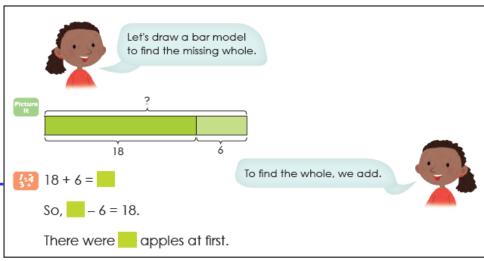
Each lesson has several learning cycles

Finding the missing whole in a subtraction sentence

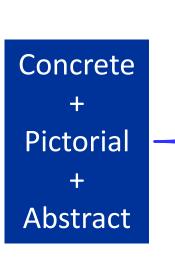
Let's Learn whole part Concrete part How many apples were there at first? -6 = 18**Pictorial**

Models of mathematical thinking

Abstract

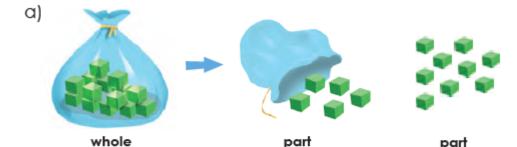


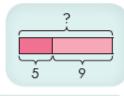
Each lesson has several learning cycles





Complete the number sentences.





To find the whole, we add.

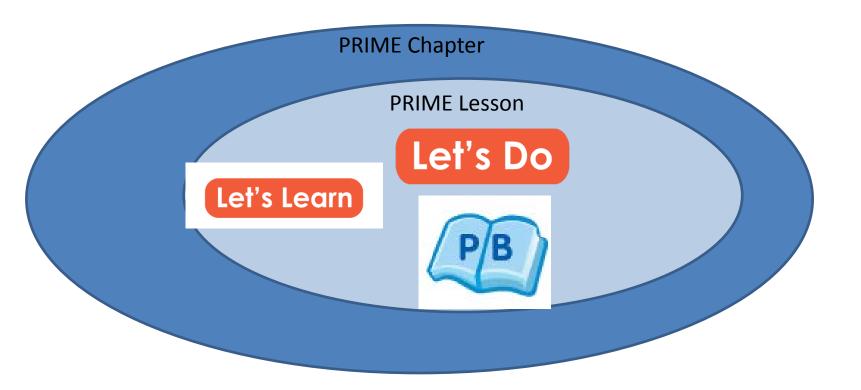
-9 = 5

Mathematical thinking

Chapter 9: Exercise 1

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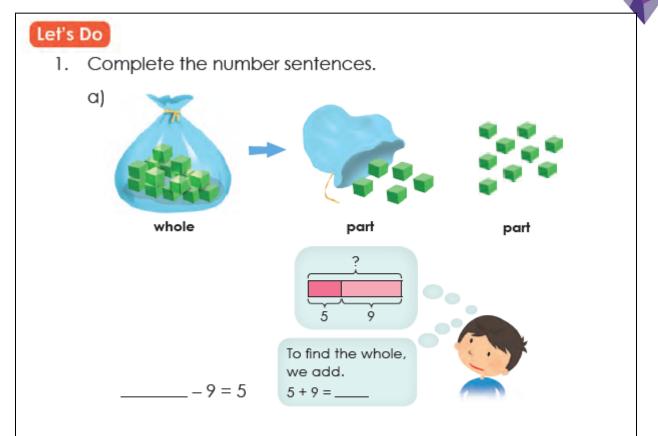






Practice Book for mastery and formative assessment









Practice Book for mastery and formative

assessment



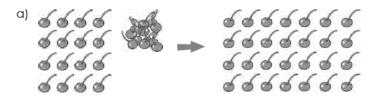
Chapter 9: Exercise 1

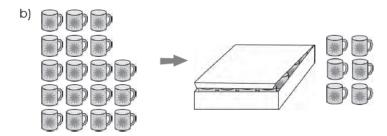


Addition and Subtraction

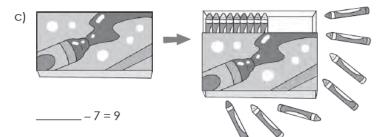
Exercise 1 Finding the Missing Number

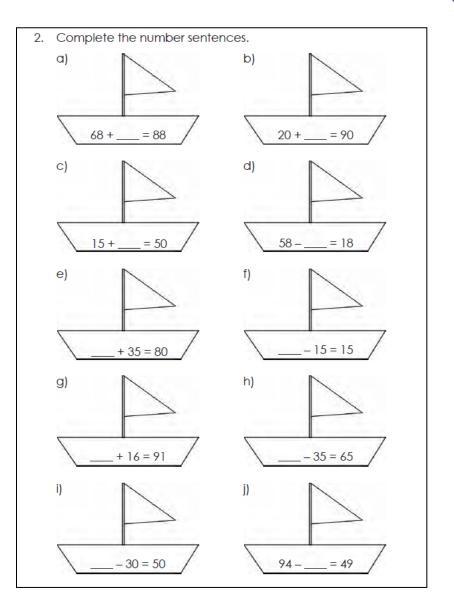
1. Complete the number sentences.





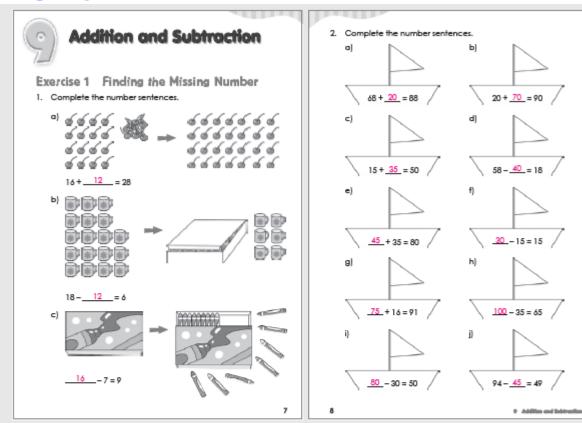






Practice Book for mastery and formative

assessment

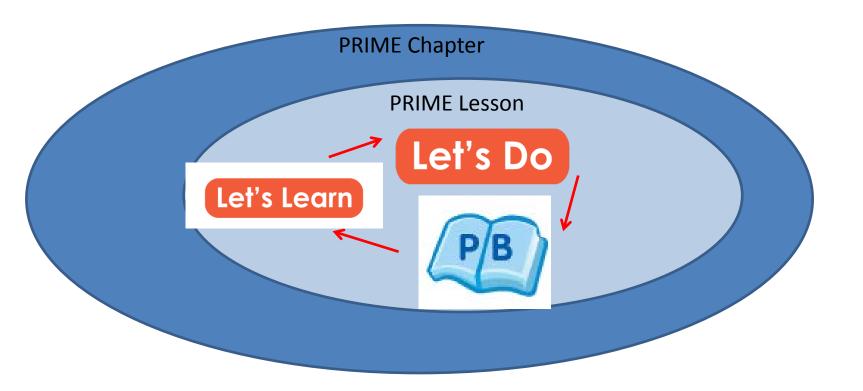


Practice Book Exercise 1

Task	Objectives	Skills
1	To find the missing number in an addition or subtraction sentence	Students are to identify the whole and parts in an addition or subtraction sentence. Pictorial guidance is given; the whole and its parts are shown. Students are able to find the missing number by counting the number of items.
2	To find the missing number in an addition or subtraction sentence	This task provides advanced practice on finding the missing number in an addition or subtraction sentence without pictorial guidance. Students are expected to use the part-whole method to find the missing part using either subtraction or addition.

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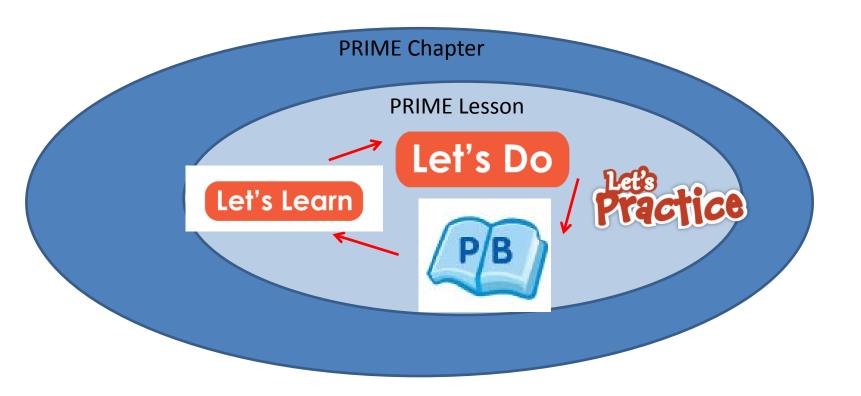






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Summative Assessment in the Coursebook

Practice 1

Complete the number sentences.

a)
$$= +25 = 40$$
 b) $23 - = 6$

c)
$$= +17 = 56$$
 d) $43 - = 21$

d)
$$43 - \underline{\hspace{1cm}} = 21$$

Subtract.

a)
$$100 - 38$$

d)
$$100-4$$

Practice 1

Task 1 provides practice on finding the missing number in an addition or subtraction sentence.

Tasks 1(g) and 1(i)-1(l) require students to complete the number sentences by making 100.

Task 2 provides practice on solving a subtraction sentence by making 100.

Summarizing concepts and skills taught





Reiterate the following points:

- To find a missing part in an addition sentence, we subtract.
- To find a missing part in a subtraction sentence, we subtract.
- To find the missing whole in a subtraction sentence, we add.
- We can count on or use place value to make 100.
- We can use different strategies to do mental addition and subtraction (Refer to TR9.2 and TR9.3).

Summative Assessment in the Practice Book

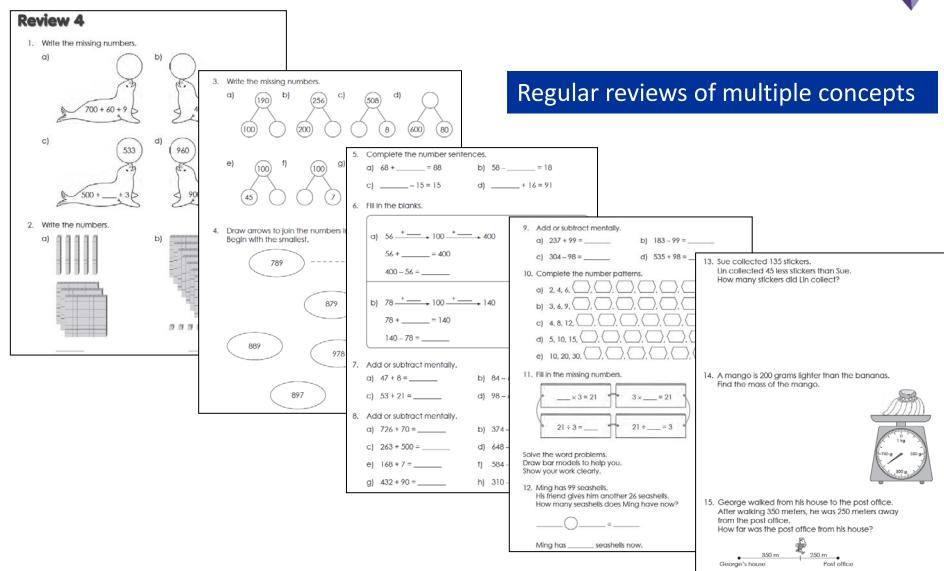


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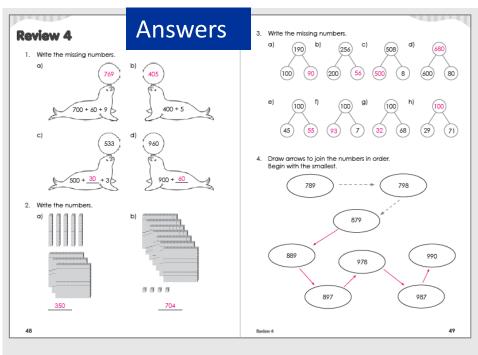
Summative Assessment in the Practice Book





Teacher's Guide lists concepts reviewed





5. Complete the number sentences. a) 68 +20 = 88	h. dh.	
6. Fill in the blanks. a) 56 + 44 + 100 + 300	·	*
a) $56 + \frac{44}{100} + \frac{300}{400} + 400$ $56 + \frac{344}{344} = 400$ $400 - 56 = \frac{344}{344} = 400$ b) $3.6.9, (12) (15), (18) (21), (24), (27) (30)$ c) $4.8.12, (16), (20), (24), (28), (32), (36), (40)$ d) $5.10.15, (20), (25), (30), (35), (40), (45), (50)$ e) $10.20.30, (40), (50), (50), (70), (80), (90), (100)$ 11. fill in the missing numbers. 7. Add or subtract mentally. a) $47 + 8 = \frac{55}{5}$ b) $84 - 6 = \frac{78}{3}$ c) $53 + 21 = \frac{74}{3}$ d) $98 - 65 = \frac{33}{3}$ Solve the word problems. Draw bar models to help you. Show your work clearly. 12. Ming has 99 seashells. His friend gives him another 26 seashells. How many seashells does Ming have now? 99 (+) $26 = \frac{125}{5}$ Ming has $\frac{125}{5}$ seashells now.	c) <u>30</u> - 15 = 15 d) <u>75</u> + 16 = 91	c) 304 - 98 = <u>206</u> d) 535 + 98 = <u>633</u>
b) $78 + \frac{22}{100} + 100 + \frac{40}{100}$ 140 $78 + 62 = 140$ $140 - 78 = 62$ 7. Add or subtract mentally. a) $47 + 8 = \frac{55}{5}$ b) $84 - 6 = \frac{78}{5}$ c) $53 + 21 = \frac{74}{100}$ b) $374 - 60 = \frac{314}{500}$ c) $263 + 500 = \frac{763}{500}$ d) $648 - 400 = \frac{248}{500}$ e) $168 + 7 = \frac{175}{100}$ f) $584 - 5 = \frac{579}{500}$ g) $432 + 90 = \frac{522}{500}$ h) $310 - 40 = \frac{270}{500}$ Ming has $\frac{125}{500}$ seashells now.	a) $56 + \frac{44}{300} \rightarrow 100 + \frac{300}{300} \rightarrow 400$ $56 + \frac{344}{300} = 400$ $400 - 56 = \frac{344}{300}$	a) 2.4.6. 8) (10) (12) (14) (16) (18) (20) b) 3.6.9. (12) (15) (18) (21) (24) (27) (30) c) 4.8,12. (16) (20) (24) (28) (32) (36) (40) d) 5.10,15. (20) (25) (30) (35) (40) (45) (50)
8. Add or subtract mentally. a) 726 + 70 = \frac{796}{296} b) 374 - 60 = \frac{314}{248} c) 263 + 500 = \frac{763}{252} d) 648 - 400 = \frac{248}{248} e) 168 + 7 = \frac{175}{252} f) 584 - 5 = \frac{579}{270} g) 432 + 90 = \frac{522}{252} h) 310 - 40 = \frac{270}{270}	78 + <u>62</u> = 140 140 - 78 = <u>62</u> 7. Add or subtract mentally.	11. Fill in the missing numbers. $7 \times 3 = 21$ $3 \times 7 = 21$
c) $263 + 500 = \underline{-763}$ d) $648 - 400 = \underline{-248}$ His friend gives him another 26 seashells. How many seashells does Ming have now? e) $168 + 7 = \underline{-175}$ f) $584 - 5 = \underline{-579}$ $\underline{-99}$ (+) $\underline{-26}$ = $\underline{-125}$ Ming has $\underline{-125}$ seashells now.	Add or subtract mentally.	Draw bar models to help you. Show your work clearly.
g) $432+90=\underline{522}$ h) $310-40=\underline{270}$ Ming has $\underline{125}$ seashells now.	c) 263 + 500 = <u>763</u> d) 648 - 400 = <u>248</u>	His friend gives him another 26 seashells.
Ming has <u>125</u> seashells now.		99 (+) 26 = 125
50 Review 4 Review 4 51	g) +52 · 70 - <u></u>	Ming has <u>125</u> seashells now.
	50 Boolean 4	Raviow 4 51

Practice Book Review 4

Task	Objectives	Coursebook Reference
1	To interpret a 3-digit number in terms of hundreds, tens and ones	2A Chapter 1
2	To read and write a 3-digit number	2A Chapter 1
3	To find a part or whole in a number bond	2A Chapter 1 2B Chapter 9
4	To compare and order numbers within 1000	2A Chapter 1

Concepts

Chapter

Practice Book Review 4 (continued)

Task	Objectives	Coursebook Reference
5	To find the missing number in an addition or subtraction sentence	2B Chapter 9
6	To mentally subtract a 2-digit number from a 3-digit number using the related addition sentence	2B Chapter 9
7	To mentally add or subtract a 1-digit or 2-digit number to or from a 2-digit number	2B Chapter 9
8	To mentally add or subtract ones, tens or hundreds to or from a 3-digit number	2B Chapter 9
9	To mentally add or subtract 98 or 99 to or from a 3-digit number	2B Chapter 9
10	To count by twos, threes, fours, fives or tens	2A Chapter 8 2B Chapter 10
11	To multiply or divide numbers within the multiplication table of 3	2B Chapter 10

Problem solving



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Lesson 1: Halves and Quarters
Practice 2

Teaches process AND strategies



• The Process

- ✓ 1. Understand
- ✓ 2. Plan
- ✓ 3. Answer
- ✓ 4. Check

- The Strategies/Heuristics
- Draw a diagram
- Make a list
- Choose an operation
- Guess and check
- Look for patterns
- Make suppositions
- Act it out
- Work backwards
- Before-after concept
- Simplify the problem
- Solve part of the problem

Problem solving process and strategies

Lesson 5 Problem Solving

Word problems

Let's Learn

Jamie buys 6 bags of tomatoes.
There are 3 tomatoes in each bag.
How many tomatoes does Jamie buy altogether?

Understand the problem.

Problem solving

✓ 1. Understand

✓ 2. Plan

✓ 3. Answer

✓ 4. Check

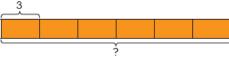
process

How many bags of tomatoes are there?
How many tomatoes are in each bag?
What do I have to find?

Plan what to do.

I should multiply to get the answer. I can **draw a bar model** to help me.

Work out the Answer.



 $6 \times 3 = 18$

Jamie buys 18 tomatoes altogether.

1 stands for 1 bag

1 unit \rightarrow 3 tomatoes 6 units \rightarrow 6 \times 3 tomatoes

Check Did you answer the question? Is your answer

correct?

 $18 \div 3 = 6$ My answer is correct.



☑ 1. Understand

✓ 2. Plan

✓ 3. Answer

✓ 4. Check

Coursebook 2B

Strategies and mathematical thinking



Problem solving process and strategies



Lesson 5: Problem Solving

Duration: 3 h 20 min

Let's Learn Word problems

Objectives:

- To solve a 1-step word problem on multiplication
- To use a part-whole bar model to represent a multiplication situation

Resource:

• CB: pp. 54–55

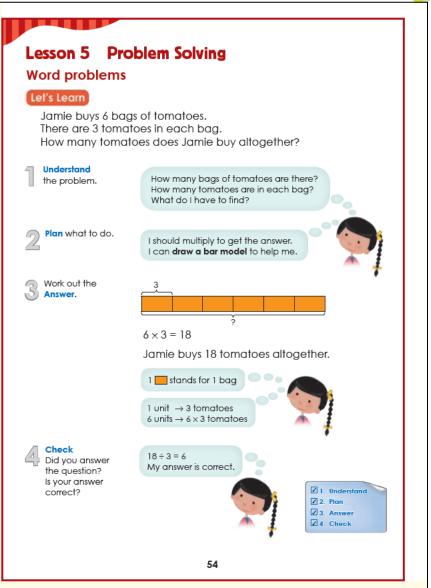
Possible student misconceptions

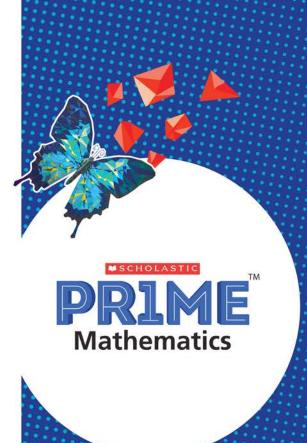
Suggested Procedure

Project the word problem on CB p. 54 on the board. Struggling students might still be unclear about the four basic operations; some may relate 'altogether' with addition, and thus be confused when multiplication is introduced as the method to find the total number of objects. Highlight and correct this misconception before moving on.

- 1. Understand the problem
 - Pose the questions in the first thought bubble. Guide students by drawing 6 bags with 3 tomatoes in each bag on the board to illustrate the word problem.
- 2. Plan what to do

Ask: What should we do to get the answer? (Multiply) **Say:** We can draw a part-whole bar model to help us solve the word problem





PRIME Components



Proven to be world's best practice

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Program Components

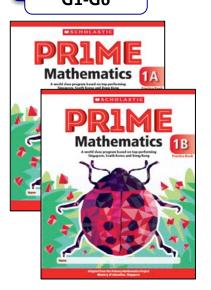


Scholastic PR1ME Mathematics

Coursebooks G1-G6

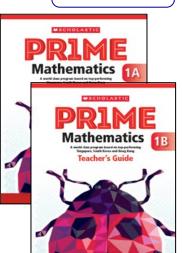
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Practice Books G1-G6



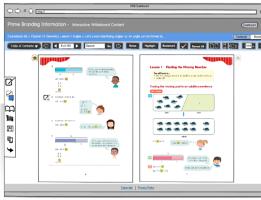
Teacher's Guides

G1-G6



Technology Resources

G1-G6

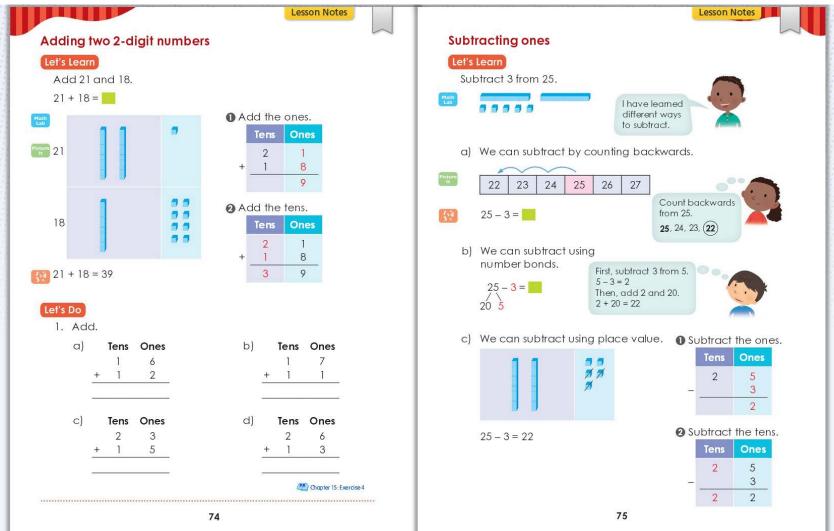


Proven to be world's **best practice**



Books or Interactive Whiteboard Resources? Both!





A







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