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Master the essential mathematical concepts that underpin the new Cambridge Primary Mathematics curriculum framework (0096) from 2020, with specifically sign-posted tasks and activities rooted in the mastery approach.

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- Develop key mathematical skills: See learners progress through a range of activities, assessment ideas, success measures and quizzes for stages 5 and 6.
- Support the use of ESL: Introductions and activities included that have been developed by an ESL specialist to help facilitate the most effective teaching in classrooms with mixed English abilities.
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We're here to help!

If we can help with questions, and to find out more, please contact us at international.sales@hoddereducation.com

Cambridge Primary

Mathematics

Second Edition

Learner's Book 4

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Mathematical dictionary





Skills for calculating

Explore

3

Read the heights of these mountains. Which heights **round** to 9000 to the **nearest** 1000? Which height rounds to 8500 to the nearest 100? What other rounding can you do? Approximately how many metres higher is Makalu than Broad Peak? Maths words round nearest decompose regroup

Mountain	Height (m)
Mount Everest	8848
K2	8611
Makalu	8485
Broad Peak	8051
Nanda Devi	7816

Learn

Knowing the place value of individual digits can help you to round and **decompose** numbers. The mountain called Makalu is 8485 m tall. 8485 is represented here.

Thousands	Hundreds	Tens	Ones

We can **decompose** 8485 to show the value of each digit.

8485 = 8000 + 400 + 80 + 5

We can also **regroup** 8 485 in different ways:

8485 = 8000 + 485

8485 = 8000 + 400 + 85 8485 = 7000 + 1400 + 85

Regrouping numbers is an important skill when calculating. Why do you think this is?

Ρ	ra	ct	ise
	- ~		

1 Decompose these numbers to show the value of each digit.	
--	--

α 7 457 b 8 504 c 11 085 d 1514	<mark>a</mark> 7457	b 8504	c 11085	<mark>d</mark> 15142
---------------------------------	---------------------	--------	---------	----------------------

2 Copy and complete this table.

	Rounded to the nearest 10	Rounded to the nearest 100	Rounded to the nearest 1000	Rounded to the nearest 10000
7457				
8 504				
11085				
15142				



Maths words

Using rounding to help with adding and subtracting

Explore



Learn

These number lines show the two calculations 78 – 29 and 78 – 31. The numbers 29 and 31 are **near multiples** of 10. They both round to 30.



We can use what we know about place value to help us subtract tens. We can write 78 - 29 as 78 - 30 + 1. Why do we need to add 1 when we subtract 29 in this way? We can write 78 - 31 as 78 - 30 - 1.

Unit 3 Calculation



Try this

Pia uses rounding to help her with a calculation. She adds a multiple of ten and then subtracts 1.



Working with addition

Explore

How high is this human tower?

Is 100 cm a good estimate? What about 500 cm?

How could you make a good estimate of the total height?

What factors do you need to consider to make the best prediction you can?

Maths words estimate decompose add



Learn



Try to think of another way to **add** 174 and 149.

Practise







Working with subtraction



Learn

Estimate: 523 – 195

Will the actual answer be larger or smaller? Let's investigate.

Subtracting back method	Regrouping method	Written column method				
	(523 = 400 + 110 + 13)		Н	Т	0	Method
-2 -3 -90 -100 328 330 333 423 523	523 - 195 = 400 - 100 = 300 110 - 90 = 20 13 - 5 = 8 + 328	-	4 5	11 2	13	α 13 ones – 5 ones
			1	9	5	b 11 tens – 9 tens
			3	2	8	c 4 hundreds –
						1 hundred

How close was your estimate to the actual total? Was it more or less than the actual total? 195 is a near multiple of 100. Can you think of another way to solve 523 – 195?



Cambridge Primary Mathematics Second Edition

Learner's Book 4

Master the essential mathematical concepts that underpin the new Cambridge Primary Mathematics curriculum framework, with specifically sign-posted tasks and activities rooted in the mastery approach.

- Get learners thinking mathematically with engaging activities designed to focus on key concepts and principles.
- Embed knowledge across all areas of learning, enabling learners to make connections between different areas of mathematics.
- Develop vocabulary with probing questions designed to encourage learners to use accurate language to describe how they solve particular problems.



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This resource is endorsed by Cambridge

- Provides support as part of a set of resources for the Cambridge Primary Mathematics curriculum framework (0096) from 2020
- Has passed Cambridge International's rigorous quality-assurance process
- 🗸 Developed by subject experts

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