

B

Know Place Value

Student's Book p.5

What You Will Learn:

- Understand the value and place value of digits more than 1 000 000.
- Compose, decompose and regroup numbers in different ways.

Look Back

Caz is going for a holiday. She goes to Shanghai then to Pakistan. She looks at the distances on the map.



Read the distances on the map with your partner.

Thinking Cap



break apart

How do we decompose these distances above?
Use a place-value chart to help you. What is the same and what is different between them?



$$4434 = 4000 + 400 + 30 + 4$$

$$3792 = 3000 + 700 + 90 + 2$$

They are both 4-digit numbers with different place values.

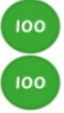
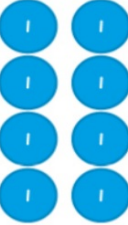
eight million, three hundred and three thousand and two hundred and eighteen

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Let's Learn

There are 8 303 218 people living in Bangkok, Thailand. Eddy represents this number using number discs and a place-value chart.

value

						
stands for 8 millions	stands for 3 hundred thousands	stands for 0 ten thousands	stands for 3 thousands	stands for 2 hundreds	stands for 1 ten	stands for 8 ones
8 000 000	300 000	0	3000	200	10	8

The digit in the millions place has the greatest value.

The digit in the ones place has the smallest value. (in this case)

We can **compose** the number as:

$$8\ 000\ 000 + 300\ 000 + 3000 + 200 + 10 + 8 = \underline{8\ 303\ 218}$$

We can **decompose** the number as:

$$\underline{8\ 303\ 218} = 8\ 000\ 000 + 300\ 000 + 3000 + 200 + 10 + 8$$

We can also **regroup** the number by showing it different ways like this.

$$\underline{8\ 303\ 218} = 7\ 000\ 000 + 1\ 300\ 000 + 3000 + 210 + 8$$

How many hundred thousands is the same as 1 million?



Write another way to regroup the number. Show your partner how you worked it out.

$$7\ 000\ 000 + 1\ 300\ 000 + 218$$

1 million = ten hundred thousands

6

10 00 000

8 303 218 because we have 8 millions as the largest value,
then there are 303 thousands and 2 hundreds, 1 ten and 8 ones making 218

Let's Practise

I Fill in the blanks.

10 000 000s	1 000 000s	100 000s	10 000s	1000s	100s	10s	1s
4	2	5	9	8	3	4	1

- Which digit is in the thousands place? 8
- What is the value of the digit in the hundred thousands place? 5 000
- How many millions are there in the number? 2
- The digit 3 stands for 300.

Read this number out loud with a partner.



Explain how you know how to read it.

two million, five hundred and ninety-eight thousand and three hundred forty-one

2 Compose these numbers.

ten thousand

hundreds

tens

ones

a $20\ 000 + 2\ 000 + 300 + 30 + 40 + 5 + 2 + 2 = 22\ 379$

b $909\ 404 = 900\ 000 + 9\ 000 + 400 + 4$

Spot any mistakes in **a** and **b** and correct it with a partner.

3 900 000, 700 000, 1500, 1000, 60 and 11 seeds are planted in a farm.

a How many seeds are planted altogether? **1 602 571**



b How many seeds would there be if there were 1 more thousand and 2 more tens of seeds planted? Explain using a diagram. **1 603 591**

Tick (✓) to show what you can do.

☐

I understand the value and place value of digits more than 1 000 000.

☐

I can compose, decompose and regroup numbers in different ways.