

**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.

Student's Book p.5

## 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

Student's Book p.6

## 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 <b>8 000 000</b>	stands for 3 hundred thousands <b>300 000</b>	stands for 0 ten thousands <b>0</b>	stands for 3 thousands <b>3000</b>	stands for 2 hundreds <b>200</b>	stands for 1 ten <b>10</b>	stands for 8 ones <b>8</b>

The digit in the **millions** place has the greatest **value**.

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

## Student's Book p.6

We can **compose** the number as:

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

We can **decompose** the number as:

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

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

$$\underline{\underline{8\ 303\ 218}} = 7\ 000\ 000 + \underline{1} 300\ 000 + 3000 + \underline{2} 10 + 8$$

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.

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

$$1\ \text{million} = \text{ten hundred thousands}$$

$$10\ 00\ 000$$

6

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	1 000s	100s	10s	1s
<del>4</del>	2	5	9	8	3	4	1

- a Which digit is in the thousands place? 8
- b What is the value of the digit in the hundred thousands place? 500,000
- c How many millions are there in the number? 2
- d 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

Student's Book p.7

2 Compose these numbers.

ten thousand

hundreds

tens

ones

a  $20\ 000 + 2000 + 300 + \underline{30 + 40} + 5 + 2 + 2 = \underline{\underline{22\ 379}}$

b 909 404 =  $900\ 000 + 9000 + 400 + 4$

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.