Worksheet B

Know Place Value

Level 1   Level 2   Level 3

> If you are not sure, you can refer to Student's Book page 6.

I   The population of Surabaya is 2 760 480.

a   Write the value of the digits in the place-value chart below.

1 000 000s	100 000s	10 000s	1 000s	100s	10s	1s
2,000,000	700,000	60,000	0	400	80	0

b   What is the digit in the ten thousands place? __6__

c   The place value of the digit 2 is the _millions_ place.

d   The digit 7 stands for __700 000__.

e The population of Surabaya can be decomposed as

2 000 000 + __700 000__ + 60 000 + 400 + __80__.

Find an example of regrouping this number.

Answers vary. For example: 1 000 000 + 1 700 000 + 60 000 + 300 + 180

conjecture: an opinion or conclusion formed on the basis of incomplete information

Izzy makes a conjecture: "In 2000, there are 20 hundreds. In 20 000, there are 20 thousands."

Is her conjecture correct? Explain using a place-value chart. Answers vary. For example: Yes, Izzy's conjecture is correct. The number of ten thousands can be regrouped into thousands, while the number of thousands can be regrouped into hundreds.

10 000s	1 000s	100s	10s	1s
	20	0	0	0
		20	0	0

Level 1 **Level 2** Level 3

3   Study the numbers and complete the table. You may use each number
    more than once.

5705   8920   2543   2493   7636   9431

3185   5439   8144   9297   7810
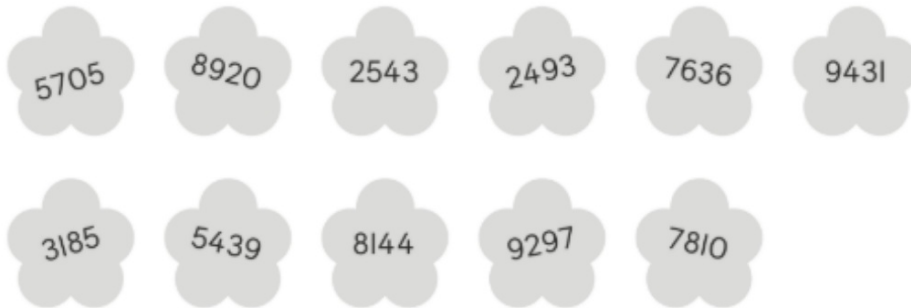
Remember to find a
partner to help you if you
do not know how to do.

a

Thousands digit < 6	Hundreds digit is odd	Tens digit > 5	Ones digit is even
5705	8920	2493	8920
2543	2543	9297	7636
2493	3185	3185	8144
3185	8144		7810
5439	5705		

b Which numbers do not belong to any of the categories above? __9431__

✗ What other category could this number be in? ___Answers vary.___

For example: thousands digit > 6 or hundreds digit is even or tens

digit <5 or ones digit is odd

4

(100 000)	
(10 000) (10 000) (10 000)	
(1000) (1000) (1000) (1000) (1000)	
(100) (100) (100) (100) (100) (100) (100)	
(10) (10)	
(1)	
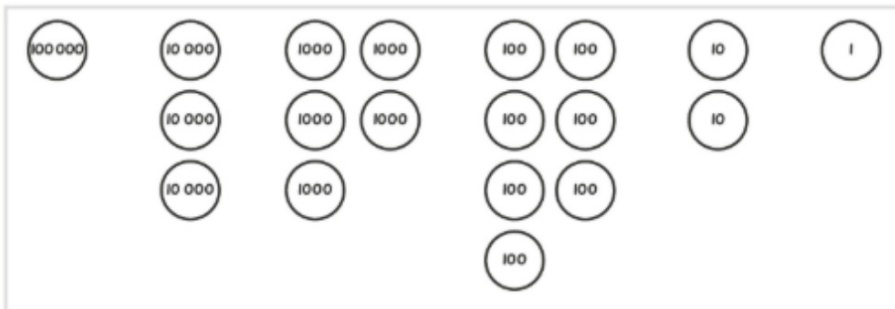
a Compose the number. _____135 721_____

b Regroup the number in different ways.

First way	Second way
Answers vary. For example: 130 000 + 5000 + 700 + 20 + 1	110 000 + 20 000 + 5700 + 10 + 10 + 1

How many numbers can you find that have these characteristics?

> There are more than 3 millions but less than 4 millions.

> The smallest digit is in the 100 000s place.

> The largest digit is in the 10 000s place.

> The thousands digit is 1 less than the ten thousands digit.

> There are 5 ones in the number.

a Find an example of a number that meets all the characteristics above.

Answers vary. For example: 3 098 125, 3 098 215, 3 098 145,

3 098 415, 3 098 165, 3 098 615, 3 098 175, 3 098 715, 3 098 245,

3 098 425

b How many different answers could there be? How did you organise and work out your answer?

Answers vary. For example: There could be 10 answers. I worked out

my answer systematically by setting one digit in one of the places and

check if there are other possible digits for the other places.

c Compare your answers with your partner's. Did he or she work it out the same way as you? Did you get the same answers?

Answers vary.