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PART ONE: Learn about number sense

Study the place-value chart that Theo's teacher made. It shows how many people visited the Year Two science fair.

As you study, think about the place value of each digit.

hundreds (100)	tens (10)	ones (1)
6	7	5

The chart shows the number 675.

The number 675 is written as six hundred and seventy-five.

The number 675 has three digits.

The number 675 has 6 hundreds, 7 tens and 5 ones.

The number 675 can be shown as $600 + 70 + 5$.

Look at some other numbers and how they can be written.

The number 59 has 5 tens and 9 ones.

The number 280 can be shown as $200 + 80 + 0$.

The number 364 is written as three hundred and sixty-four.

You use **number sense** when you think about the place value of each digit in a number.

- Each digit in a number has a place value, such as ones, tens or hundreds.
- The value of a digit depends on its place in a number.
- A number can be written in digits or in words.

Theo made his own place-value chart. Theo's chart shows the number of ants in his ant farm. Study Theo's chart. Think about the number the chart shows. Think about the place value of each digit in the number. Then do numbers 1 to 4.

hundreds (100)	tens (10)	ones (1)
8	4	5

- What number does the chart show?
 - 854
 - 845
 - 548
 - 458
- What is the place value of the 4 in the number 845?
 - 5 ones
 - 4 ones
 - 4 tens
 - 4 hundreds
- Which of these shows how the number 845 can be written?
 - eight hundred and forty-five
 - eighty-five
 - eight hundred and nine
 - eighty
- Which of these shows the number 845?
 - $400 + 50 + 8$
 - $800 - 40 - 5$
 - $800 + 40 + 5$
 - $500 + 80 + 4$



Talk about your answers to questions 1–4. Explain why you chose the answers you did.

Remember: You use number sense when you think about the place value of each digit in a number.

- Each digit in a number has a place value, such as ones, tens or hundreds.
- The value of a digit depends on its place in a number.
- A number can be written in digits or in words.

Solve this problem. As you work, ask yourself, ‘What are the ways that numbers can be written?’.

5. Theo attends Willow Primary School. The tuckshop at the school serves two hundred and ninety-six lunches to students each day. What number shows how many lunches are served each day?

- Ⓐ 26
- Ⓑ 29
- Ⓒ 209
- Ⓓ 296

Solve another problem. As you work, ask yourself, ‘What does the place of each digit in a number tell me about its place value?’.

6. There are 579 students in the Willow Primary School. What is the place value of the 7 in the number 579?

- Ⓐ 9 ones
- Ⓑ 7 ones
- Ⓒ 7 tens
- Ⓓ 7 hundreds

**Look at the answer choices for each question.
Read why each answer choice is correct or not correct.**

5. Theo attends Willow Primary School. The tuckshop at the school serves two hundred and ninety-six lunches to students each day. What number shows how many lunches are served each day?

Ⓐ 26

This answer is not correct because 26 is twenty-six.

Ⓑ 29

This answer is not correct because 29 is twenty-nine.

Ⓒ 209

This answer is not correct because 209 is two hundred and nine.

● 296

This answer is correct because 296 is written two hundred and ninety-six.

6. There are 579 students in the Willow Primary School. What is the place value of the 7 in the number 579?

Ⓐ 9 ones

This answer is not correct because 9 ones equals 9, and the 9 in 579 is in the ones place.

Ⓑ 7 ones

This answer is not correct because 7 ones equals 7, and the 7 in 579 is in the tens place.

● 7 tens

This answer is correct because 7 tens equals 70, and the 7 in 579 is in the tens place.

Ⓓ 7 hundreds

This answer is not correct because 7 hundreds equals 700, and the 7 in 579 is in the tens place.