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Strategy **one** NUMBER SENSE

PART ONE: Learn about number sense

Study the place-value chart. It shows the number of books that students in Anna's school read during the holidays. As you study, think about the place value of each digit. Also think about whether the number is even or odd.

thousands (1000)	hundreds (100)	tens (10)	ones (1)
2	5	4	9

The number 2549 is written as two thousand, five hundred and forty-nine.

The number 2549 has four digits.

The number 2549 has 2 thousands, 5 hundreds, 4 tens and 9 ones.

If a number has a 0, 2, 4, 6 or 8 in the ones place, the number is even.

If a number has a 1, 3, 5, 7 or 9 in the ones place, the number is odd.

The number 2549 is odd.

You use **number sense** when you think about the place value of each digit in a number. You also use number sense to understand whether a number is even or odd.

- Each digit in a number has a place value, such as ones, tens, hundreds or thousands. The value of a digit depends on its place in a number.
- Even numbers have the digit 0, 2, 4, 6 or 8 in the ones place. Odd numbers have the digit 1, 3, 5, 7 or 9 in the ones place.
- A number can be written in digits or in words.

Anna made a place-value chart to show how many people live in her town. Study Anna's chart. Think about the place value of each digit in the number on the chart. Also think about whether the number is even or odd. Then do numbers 1 to 4.

thousands (1000)	hundreds (100)	tens (10)	ones (1)
3	4	6	8

- What number does the chart show?
 - 34
 - 368
 - 3468
 - 13,468
- What is the value of the 4 in the number 3468?
 - 4
 - 40
 - 400
 - 4000
- Which of these shows how the number 3468 can be written?
 - three thousand, four hundred and sixty-eight
 - three hundred and eighty-six
 - thirty-four thousand and sixty-eight
 - eight thousand, six hundred and forty-three
- The number 3468 is even. Which of these numbers is also even?
 - 2006
 - 151
 - 5309
 - 87



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

PART TWO: Check your understanding

Remember: You use number sense when you think about the place value of each digit in a number. You also use number sense to understand whether a number is even or odd.

- Each digit in a number has a place value, such as ones, tens, hundreds or thousands. The value of a digit depends on its place in a number.
- Even numbers have the digit 0, 2, 4, 6 or 8 in the ones place. Odd numbers have the digit 1, 3, 5, 7 or 9 in the ones place.
- A number can be written in digits or in words.

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

5. The library in Anna’s school gave out 1796 new library cards last year. What is the value of the 7 in 1796?

- Ⓐ 7
- Ⓑ 70
- Ⓒ 700
- Ⓓ 7000

Solve another problem. As you work, ask yourself, ‘What number has a 0, 2, 4, 6 or 8 in the ones place? What number has a 1, 3, 5, 7 or 9 in the ones place?’.

6. Anna wrote groups of numbers. Which group has only one even number?

- Ⓐ 19, 21, 28, 6
- Ⓑ 14, 5, 23, 17
- Ⓒ 15, 2, 16, 30
- Ⓓ 31, 29, 12, 4

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

5. The library in Anna's school gave out 1796 new library cards last year. What is the value of the 7 in 1796?

Ⓐ 7

This answer is not correct because 7 is equal to 7 ones. The 7 is not in the ones place in 1796.

Ⓑ 70

This answer is not correct because 70 is equal to 7 tens. The 7 is not in the tens place in 1796.

● 700

This answer is correct because 700 is equal to 7 hundreds. The 7 is in the hundreds place in 1796.

Ⓓ 7000

This answer is not correct because 7000 is equal to 7 thousands. The 7 is not in the thousands place in 1796.

6. Anna wrote groups of numbers. Which group has only one even number?

Ⓐ 19, 21, 28, 6

This answer is not correct because there are two even numbers: 28 and 6.

● 14, 5, 23, 17

This answer is correct because only 14 is an even number.

Ⓒ 15, 2, 16, 30

This answer is not correct because there are three even numbers: 2, 16 and 30.

Ⓓ 31, 29, 12, 4

This answer is not correct because there are two even numbers: 12 and 4.