

Family Support Materials

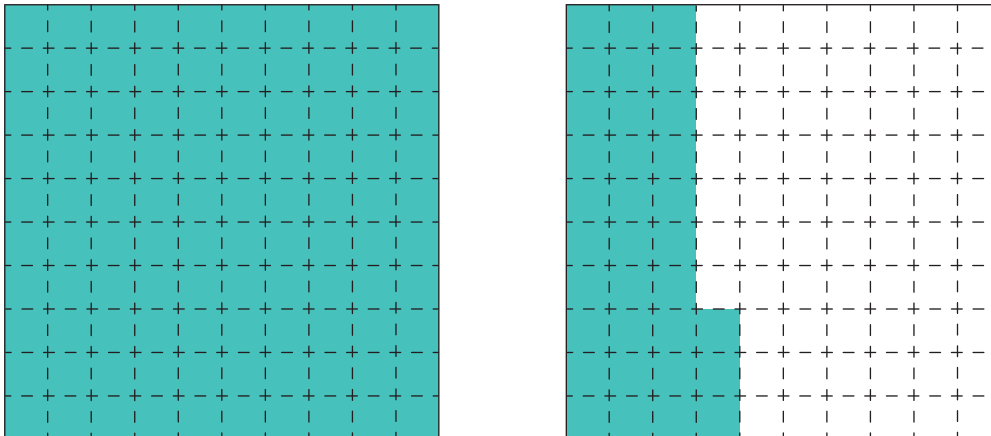
In this unit, students learn to express small and large numbers, from hundredths to hundred thousands. They learn to write tenths and hundredths, using decimal notation, and work with whole numbers within 1 million.

Section A: Decimals with Tenths and Hundredths

In this section, students relate the fraction $\frac{1}{10}$ to the notation 0.1 and $\frac{1}{100}$ to 0.01. They learn to read 0.1 as “one tenth” and 0.01 as “one hundredth.”

To connect the fraction notation, decimal notation, and word name of a fraction, students reason with square diagrams that each represent 1 and are partitioned into hundredths.

The squares in this section are shaded from left to right, to reflect the digits in a decimal. For example, the number 1.33 is represented by shading a full large square that represents 1 whole, 3 columns in the next large square, and 3 small squares in the adjacent column.



The gridded square helps students see that $\frac{1}{10}$ (or 0.1) and $\frac{1}{100}$ (or 0.10) represent the same amount. It also allows students to recognize other tenths and hundredths that are equivalent.

Later in the section, students locate decimals on number lines. They compare decimals, based on size, and write comparison statements, using the symbols $>$, $<$, and $=$.

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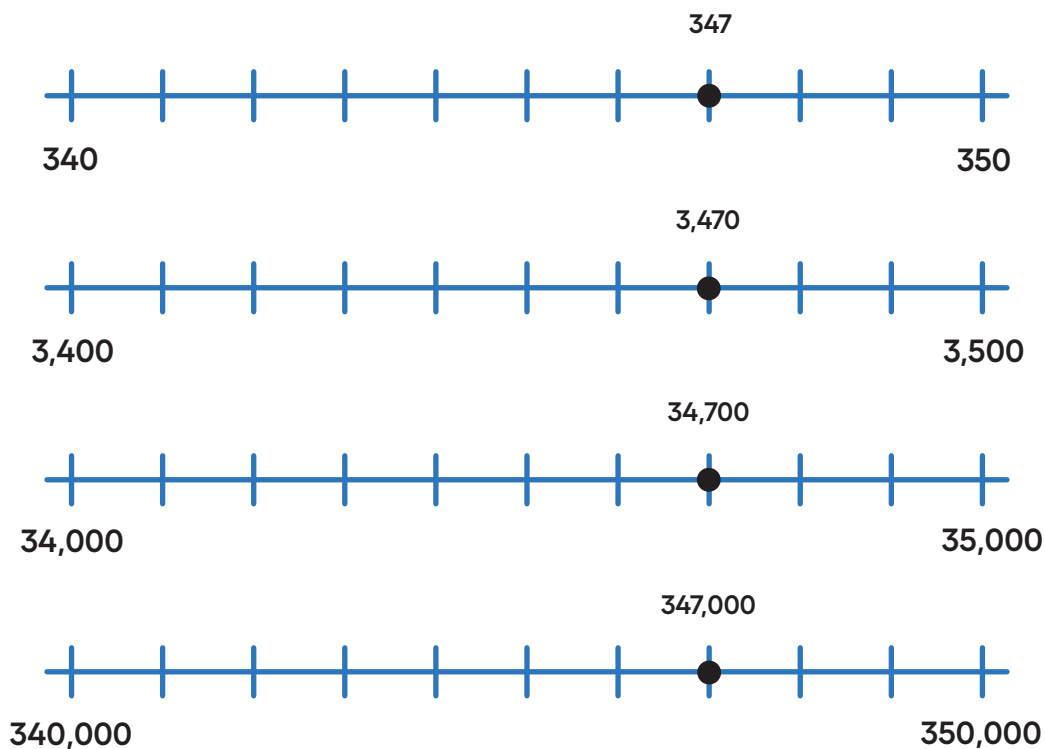
Section B: Place-Value Relationships through 1,000,000

In this section, students make sense of whole numbers up to the hundred thousands place. They use base-ten blocks and diagrams to represent large numbers.

Students come to understand the value of the digit in each place in a multi-digit number. They see that a digit in any given place has a value that is 10 times the value of the same digit in the place to its right.

For example, the 3 in 347,000 has a value 10 times that of the 3 in 34,700, because $300,000 = 10 \times 30,000$.

Students see the same relationship as they locate numbers on a number line. If the endpoints of a number line are each 10 times those on another number line, points that are in the same position on the two number lines are related by a factor of 10.



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Try it at home! (continued)

Sample responses:

- I found my answer by looking at the place value of 7 in each number. I know that the hundred-thousands place is 10 times greater than the ten-thousands place.
- I rounded by finding the multiples of 1,000 closest to the number. I also can round numbers, using a number line.
- I added and subtracted, using the standard algorithm. I also can add or subtract, using expanded form.

Unit 4 Family Support video



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