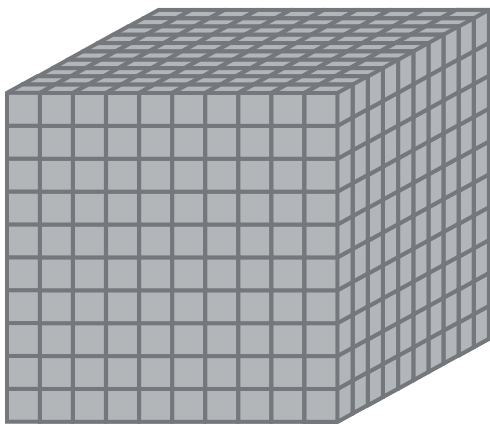# Understanding Place Value

(4.NBT.A.1)

Place value is the value of a digit, based on its position in a number. Each place in a number has a value 10 times greater than the place to its right.
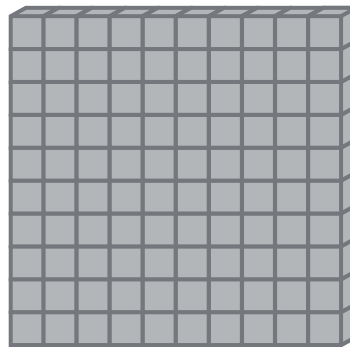
- When you multiply a number by 10, the value of each digit increases by a factor of 10, so each digit moves one place to the left.

- When you divide a number by 10, the value of each digit decreases by a factor of 10, so each digit moves one place to the right.

Place value can be represented using a place-value chart or base-ten blocks.

Thousands	Hundreds	Tens	Ones

Block (1,000)   Flat (100)   Rod (10)   Unit (1)

If your students…

Have difficulty representing numbers with place-value charts or base-ten blocks:

WATCH: Use a Place Value Chart and Arrow Cards to Understand Large Numbers

https://learnzillion.com/lesson_plans/8993-use-a-place-value-chart-and-arrow-cards-to-understand-large-numbers#fndtn-lesson

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Do not understand the relationship between position and value:

WATCH: Understand Relationships Between Digits and Their Place Value

https://learnzillion.com/lesson_plans/7426-understand-relationships-between-digits-and-their-place-value#fndtn-lesson

For extra practice with place value:

COMPLETE: Understanding Place Value 1

https://www.khanacademy.org/math/pre-algebra/order-of-operations/place_value/e/understanding-place-value-1

PLAY: Converting Between Place Values

http://mrnussbaum.com/grade_4_standards/converting/

PLAY: Identifying Place Values from Between Columns

http://mrnussbaum.com/grade_4_standards/columns/

PLAY: Convert Between Place Values

https://www.ixl.com/math/grade-4/convert-between-place-values