

Rounding Numbers

(4.NBT.A.3)

When you **round** a number, you replace it with a number it is close to but easier to use. You can round a multi-digit number to any **place**; for example, the nearest ten, hundred, thousand, million, and so on.

To round a number to a particular place, look at the digit to the right of that place. If the digit is 5 or greater, round up by increasing the digit in the target place by 1 and replacing the digits to the right with 0s. If the digit is less than 5, round down by keeping the digit in the **target place** and replacing the digits to the right with 0s.

On a number line, if the digit to the right of the target place is 5 or greater, the number is at least halfway to the next interval, so the number is rounded up because it is closer to the **place-value** of the next digit in the target place. If the digit to the right of the target place is less than 5, the number is less than halfway to the next interval, so the number is rounded down because it is closer to the place-value of the current digit in the target place.

If your students...

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

Round numbers incorrectly when there is a 5 to the right of the target digit:

WATCH: Rounding Whole Numbers 3

<https://www.opened.com/video/rounding-whole-numbers-3-khan-academy/180970>

Cannot connect rounding with a number's location on a number line:

WATCH: Rounding Numbers Using the Number Line

<https://www.opened.com/video/rounding-numbers-using-the-number-line/48792>



For extra practice with rounding multi-digit numbers:

PLAY: Half-Court Rounding

<http://mrnussbaum.com/halfcourt>

COMPLETE: Use Place Value Understanding to Round Multi-Digit Whole Numbers

<https://www.opened.com/homework/4-nbt-3-use-place-value-understanding-to-round-multi-digit/3690860?run=true>

COMPLETE: Rounding Whole Numbers

https://www.khanacademy.org/math/pre-algebra/order-of-operations/rounding_whole_numbers/e/rounding_whole_numbers

COMPLETE: Rounding

<https://www.ixl.com/math/grade-4/rounding>

