

Be sure to teach the number/place value system as “periods”, which means a repeating pattern.

Place Value Chart								
Millions			Thousands			Ones		
Hundred Million	Ten Million	Million	Hundred Thousands	Ten Thousands	Thousands	Hundred	Tens	Ones
100,000,000	10,000,000	1,000,000	100,000	10,000	1,000	100	10	1

This helps students see there is a repeated pattern to how we say numbers:
For instance 67 345 238 356

“Sixty seven *billion*”, “three hundred forty-five *million*” “two hundred thirty-eight *thousand*” “three hundred fifty six”

We say the “billions, millions, thousands” are like family last names, and the family members all have the same names—hundreds, tens, ones. So we always say the groups of three like it’s a 3 digit number, in the hundreds, then we say the last name. In the example above, notice we say “sixty seven”(billion), then “three hundred forty-five”(million), then “two hundred thirty-eight” (thousand) and so on. Its always hundreds, tens, ones—then the family last name.



Printable place value worksheets: Base ten blocks and ten frames

<https://www.k5learning.com/free-math-worksheets/first-grade-1/base-ten-blocks>

Games online <https://mrnuessbaum.com/place-value-workshop-online>
<https://www.iknowit.com/lessons/c-place-value-up-to-thousands.html>
<https://www.splashlearn.com/math/place-value-games>
<https://www.free-training-tutorial.com/place-value-games.html>

Virtual base ten blocks (manipulative)

<https://www.coolmath4kids.com/manipulatives/base-ten-blocks>

