Place Value Chart

Numbers from ones to millions, in color.

Millions period			Thousands period			Ones period
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1,000,000	100,000	10,000	1,000	100	10	1
4	3	8	2	5	1	7

Read a big number in periods. Say the three digits in a period, then say the period name: four million, three hundred eighty two thousand, five hundred seventeen.

Read it in periods:

4 million	**382** thousand	**517** ones

Decimal Place Value Chart

Whole numbers and parts of one whole, in color.

Whole number part			Decimal part		
Tens	Ones	.	Tenths	Hundredths	Thousandths
10	1	.	0.1	0.01	0.001
3	5	.	2	7	4

Places to the right of the decimal point are parts of one whole. Each step right makes the place ten times smaller.

How to Read a Big Number

Four short ideas that make big numbers friendly. Use them with the chart on page 1 of this pack.

1. Read in Periods

A big number is read in periods of three digits. Start at the left. Say the digits in a period, then say the period name. The periods in 4,382,517 are 4, then 382, then 517.

2. Expanded Form

Expanded form writes a number as the sum of the value of each digit. It shows what each digit is really worth, place by place.

4,382,517 = 4,000,000 + 300,000 + 80,000 + 2,000 + 500 + 10 + 7

3. The Ten Times Rule

Each place is worth ten times the place to its right. So 400 is ten times 40. In the same way, 5,000 is ten times 500, and 60 is ten times 6. Move one place to the left and the value grows ten times bigger.

4. Word Form

Word form writes a number in words, the way you say it out loud. Read the chart in periods and the words follow on their own.

4,382,517 is four million, three hundred eighty two thousand, five hundred seventeen.

Short practice on most days beats one long session. Keep going.

Place Value Chart

The same chart in black and white, easy on printer ink.

Millions period			Thousands period			Ones period
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1,000,000	100,000	10,000	1,000	100	10	1
4	3	8	2	5	1	7

Each place is worth ten times the place to its right.

Blank Place Value Chart

Write your own number, one digit in each box. Then say it in periods.

Name: _____ Date: _____

Millions period	Thousands period	Ones period

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1,000,000	100,000	10,000	1,000	100	10	1

Tip: say the number out loud in periods when you finish.

Keep Going

You have the free place value charts in color: a chart to millions, a decimal chart, a teaching page and a blank chart to fill in. The links below will help you find the full pack and many more lessons on MathClearGuide.

Want the digit cards and worksheets too?

The Place Value Chart Pack for members adds digit cards to cut out, build a number mats to thousands and to millions, value of a digit and expanded form worksheets, decimal practice and place value riddles, all with a full answer key.

Place Value Chart Pack (members)

The full pack, ready to print in A4 and US Letter.
https://mathclearguide.com/resources/place-value-chart-pack/

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