

### Overview



**In our unit on number and place value we learn:**

- Roman Numerals to 1,000
- Numbers to One Million
- Powers of 10 -10/ 100/ 1,000/ 10,000/ 100,000 More/Less
- Partition Numbers to 1,000,000
- Number Line to 1,000,000
- Compare/Order to 1,000,000
- Round within 1,000,000

Number and Place Value is useful learning because it is the foundation for all other maths. It helps us to understand the value of digits of numbers and to use mental calculation methods. It helps us to use maths functionally in many areas of our lives.

### Comparing and Ordering/ Counting in Powers of 10

#### Comparing and Ordering Numbers

> Greater than  
35,213 > 4,840

The number on the left has 3 ten thousands and the number on the right does not have any ten thousands.

= Equals

$$39 + 42 = 9 \times 9$$

Both calculations have the same value: 81.

< Less than

$$989,523 < 2,153,822$$

The number on the right has 2 millions and the number on the left does not have any millions.

35,467   43,567   34,567   54,376   34,576



34,567   34,576   35,467   43,567   54,376

Smallest

Largest

#### Counting in Powers of 10

475   485   495   505   515

Tens increase until 10 tens becomes 1 hundred and 0 tens.

1739   1839   1939   2039   2139

Hundreds increase until 10 hundreds becomes 1 thousand and 0 hundreds.

376,428   386,428   396,428   406,428   416,428

Ten thousands increase until 10 ten thousands becomes 1 hundred thousands and no ten thousands.

4,784,661   4,884,661   4,984,661   5,084,661   5,184,661

Hundred thousands increase until 10 ten hundred thousands becomes 1 million and no hundred thousands.

### Numbers to One Million/ Negative Numbers

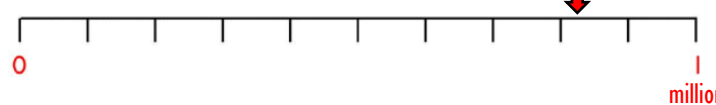
#### Numbers to One Million

	Place Value	Number	Number of Digits
Ones	Ones	1	1
	Tens	10	2
	Hundreds	100	3
Thousands	Thousands	1,000	4
	Ten Thousands	10,000	5
	Hundred Thousands	100,000	6
Millions	Millions	1,000,000	7
	Ten Millions	10,000,000	8
	Hundred Millions	100,000,000	9

-One hundred thousand is 10 ten thousands.

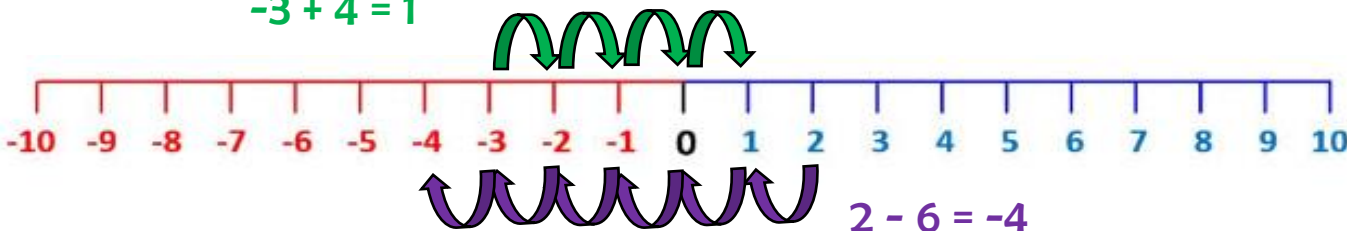
-One million is 10 hundred thousands.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
8	1	9	2	7	9	



#### Negative Numbers

$$-3 + 4 = 1$$



$$2 - 6 = -4$$

### Roman Numerals

#### Roman Numerals

1 - I	40 - XL
2 - II	50 - L
3 - III	60 - LX
4 - IV	70 - LXX
5 - V	80 - LXXX
6 - VI	90 - XC
7 - VII	100 - C
8 - VIII	101 - CI
9 - IX	150 - CL
10 - X	200 - CC
20 - XX	500 - D
21 - XXI	800 - DCCC
30 - XXX	1000 - M

Add the numerals 'I', 'X' or 'C' together up to 3 times:

Count on with the numeral 'I' from each 10, 5 or 50.

4 is written 1 before a 5.  
9 is written 1 before a 10.

40 is written 10 before 50.  
90 is written 10 before 100.

CDIX	409	DCCLXXVII	777
CDLX	460	DCCXCIX	799
DLXXI	571	DCCCXXX	830
DCII	602	CMLXI	961
DCXX	620	CMXCVI	996

### Rounding

#### Rounding

#### Rounding Numbers

A rounded number has about the same value as the starting number, but it is less exact.



Find your place

Look next door

5 or greater, add one more

Round to the nearest ten

54 → 50  
55 → 60  
313 → 310  
549 → 550  
1221 → 1220

Round to the nearest hundred

415 → 400  
950 → 1000  
7261 → 7300  
7221 → 7200  
36430 → 36400

### Key Vocabulary

Millions   Hundreds   Thousands   Negative Number   Interval   Sequence   Linear Sequence   Place Value   Partitioning   Numerals