

NUMBER and PLACE VALUE KNOWLEDGE ORGANISER

Overview



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.



Numbers to One Million/ Negative Numbers Numbers to One Million Place Value Number Number of Digits -One hundred Ones 1 thousand is 10 ten 10 Ones Tens 2 thousands. 100 з Hundreds -One million is 10 9 2 8 Thousands 1,000 4 hundred thousands. Ten Thousands 10,000 5 Thousan Hundred Thousands 100,000 6 Millions 1.000.000 7 8 10.000.000 Millions Ten Million 0 Hundred Millions 100,000,000 9 millio **Negative Numbers** -3 + 4 = 1-10 -9 -6 -5 -8 -7 10

Roman Numerals/ Rounding

Roman Num	<u>erals</u>	Add the numerals 'I', 'X' or 'C' together up to 3 times:	Ro
1 - 1 2 - 11	40 = XL 50 = L	Count on with the numeral T' from each 10, 5 or 50.	A ro
3 - III 4 - IV	60 = LX 70 = LXX	4 is written 1 before a 5. 9 is written 1 before a 10.	(
5= V 6= VI 7= VII	80 = LXXX 90 = XC	40 is written 10 before 50. 90 is written 10 before 100.	
8- VIII 9- IX	100 = CI 101 = CI 150 = CL	CDIX 409 DCCLXXVII 777 CDLX 460 DCCXCIX 799	
10 = X 20 = XX	200 = CC 500 = D	DLXXI 571 DCCCXXX 830	
21 = XXI 30 = XXX	800 = DCCC 1000 = M	DCXX 620 CMXCVI 996	

				Key Vo	cabulary		
Millions	Hundreds	Thousands	Negative Number	Interval	Sequence	Linear Sequence	Place Va

Year 5



Comparing and Ordering/ Counting in Powers of 10				
aring and Ordering Numbers	Counting in Powers of 10			
 <u>> Greater than</u> 35,213 > 4,840 on the left has 3 ten thousands and the right does not have any ten thousands. 	475 485 495 505 515 Tens increase until 10 tens becomes 1 hundred and 0 tens.			
<u>= Equals</u> 39 + 42 = 9 x 9 culations have the same value: 81. <u>< Less than</u> 989,523 < 2,153,822 er on the right has 2 millions and the	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			
the left does not have any millions.	thousands becomes 1 hundred thousands and			
,567 34,567 54,376 34,576	no ten thousands.			
	4,784,661 4,884,661 4,984,661 5,084,661 5,184,661			
,576 35,467 43,567 54,376 Largest	Hundred thousands increase until 10 ten hundred thousands becomes 1 million and no hundred thousands.			



lue

Partitioning

Numerals