



MATHS- PLACE VALUE

YEAR 6

RECAP

- Place value to 1,000,000
- Read write and order numbers to 1,000,000
- Flexible partitioning to 1,000,000
- Round numbers up to 100,000
- Read Roman Numerals to 1000

CRUCIAL KNOWLEDGE

- Read write and order integers to 10,000,000
- identify integers that are 10, 100, 1,000 times the size, or one-tenth, one-hundredth, one-thousandth the size of other integers.
- Partition numbers to 10,000,000.
- Use number lines to represent numbers to 10,000,000
- Round any integer.
- Use negative numbers in context.
- Order negative numbers.

EXTENDED KNOWLEDGE

- Multi- step problems
- Reasoning problems where there is more than one possible answer.

KEY VOCABULARY

Integers Whole numbers. These can be positive or negative. For example, 4, 78, 124, -34	Exchange Changing one thing for another. You can exchange: 10 ones for 1 ten, 10 tens for 1 hundred, 10 hundreds for 1 thousand.	Sequence A list of numbers that follow a particular pattern or rule. Each number in a sequence is called a term of the sequence.	Digit Any of the ten numbers: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. The number 23,452 has five digits.
Approximate Not completely accurate, but close enough to be used.	Roman Numerals Numbers that were used in ancient Rome. Roman numerals are based on these symbols: I V X L C D M	Compare Looking at the difference between numbers. Is one greater than the other? Are they equal to each other? How do you know?	Place Value The value of a digit, depending on its position. For example- the numbers 432, 24, 2,004 all have the number 2 in it but the place value of 2 is different in all of them.
Multiples A number that can be divided by another number without a remainder. Multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40	Negative Numbers Numbers less than zero.	Partition To split/ separate/ divide numbers into smaller parts. This can make calculations easier.	Millions, Hundred Thousands, Ten Thousands, Thousands, Hundreds, Tens and Ones This represents the number: two million, four hundred and thirteen thousand, six hundred and twenty-seven.
Power of 10 10 multiplied by itself a certain number of times. 10, 100, 1,000, 10,000, 100,000, 1,000,000... <small>(By definition, the number 1 is a power of 10)</small>	Estimate A reasonable guess. How many?	Numeral A numeral is a symbol or name that stands for a number. For example: 7, ten, 15 and eleven are all numerals.	

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
M	HTh	TTh	Th	H	T	O	t	h	th	tth	hth	m
100	200	300	400	500	600	700	800	900				
10	20	30	40	50	60	70	80	90				
1	2	3	4	5	6	7	8	9				
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9				
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09				
0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009				

1	I	11	XI	111	CXI
2	II	20	XX	200	CC
3	III	30	XXX	300	CCC
4	IV	40	XL	400	CD
5	V	50	L	500	D
6	VI	60	LX	600	DC
7	VII	70	LXX	700	DCC
8	VIII	80	LXXX	800	DCCC
9	IX	90	XC	900	CM
10	X	100	C	1,000	M