



Year 4 Number and Place Value

Prior Knowledge

- Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forwards and backwards (Y2). Count from 0 in multiples of 4, 8, 50 and 100 (Y3)
- Compare and order numbers from 0 up to 1000; use <, > and = signs (Y1-3)
- Read and write numbers to at least 100 in numerals and in words (Y2). Read and write numbers up to 1,000 in numerals and in words (Y3)
- Find 10 or 100 more or less than a given number (Y3)
- Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s) (Y3) (Y2 = 2 digit number)
- Identify, represent and estimate numbers using different representations (Y3)
- Solve number problems and practical problems involving these ideas (Y2&3)

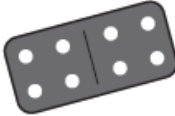
Number		Working Towards	Within	Expected	Above
	Count in multiples of 6, 7, 9, 25 and 1,000				
	Find 1000 more or less than a given number				
	Count backwards through 0 to include negative numbers				
	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s & 1s)				
	Order and compare numbers beyond 1,000				
	Identify, represent and estimate numbers using different representations				
	Round any number to the nearest 10, 100 or 1,000				
	Solve number and practical problems that involve all of the above and with increasingly large positive numbers				
	Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value.				
Highlights: _____ _____					



Glossary

vocabulary	word class	definition
number	noun	a symbol or word that tells you how many of something there are; a numeral or figure
place value	noun	the numerical value that a digit has by virtue of its position in a number
multiples	noun	a number that may be divided by another a certain number of times without a remainder
more >		a greater or additional amount of something
less <		a smaller amount or quantity of something
equal (to) =	adjective	being the same in quantity, size, degree, or value
estimate	verb/noun	roughly calculate or judge the value, number, quantity
numerals	noun	a figure, symbol, or group of figures or symbols denoting a number
negative number	noun	less than zero
round	verb	alter (a number) to one less exact but more convenient for calculations
Roman Numeral	noun	any of the letters representing numbers in the Roman numerical system.
zero	number	no quantity or number; nought; the figure 0.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100





-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
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Counting in 6s

0	6	12	18	24	30	36	42	48	54	60
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Counting in 7s

0	7	14	21	28	35	42	49	56	63	70
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Counting in 9s

0	9	18	27	36	45	54	63	72	81	90
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Counting in 25s

0	25	50	75	100	125	150	175	200	225	250
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Counting in 1000s

0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10 000
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thousands

hundreds

tens

ones

zero

place value

greater than

less than

order

round

rounded to

negative number

partition

digit

Roman numeral

Th	H	T	O
4	3	2	4

4324 > 3243
greater than

Th	H	T	O
8	7	9	2

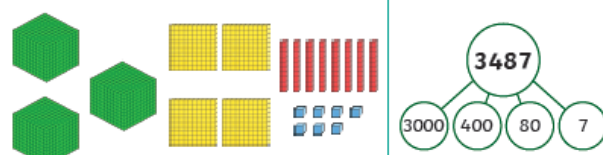
879 < 2126
less than

2497	2508	3012	3521	3530	4002
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smallest greatest

1000 Less		1000 More
1000 100 10 1	1000 100 10 1	1000 100 10 1
1212	2212	3212

3487			
three thousand, four hundred and eighty-seven			
1000s	100s	10s	1s
III	IIII	IIII	IIII
Thousands	Hundreds	Tens	Ones
1000 1000 1000	100 100 100	10 10 10 10	1 1 1 1



one	1	I
five	5	V
ten	10	X
fifty	50	L
one hundred	100	C

XVIII = 18

XXIX = 29

LXXXIV = 84

If the ones digit is 1, 2, 3 or 4, leave the ten just as before.
If it's 5, 6, 7, 8 or 9, round UP to the next ten on the number line.



If the tens digit is 1, 2, 3 or 4, leave the hundred just as before.
If it's 5, 6, 7, 8 or 9, round UP to the next hundred on the number line.



If the hundreds digit is 1, 2, 3 or 4, leave the thousand just as before.
If it's 5, 6, 7, 8 or 9, round UP to the next thousand on the number line.



Look at the place value column to the right of the value you are rounding to. If this digit is a 4 or less, round down. If the digit is a 5 or more, round up.

Rounding to nearest 10

20	21	22	23	24	25	26	27	28	29	30
← round down					round up →					

Rounding to the nearest 100

200	249	250	300
← round down		round up →	

Rounding to the nearest 1000

2000	2499	2500	3000
← round down		round up →	



Future Learning

Year 5

- Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
- Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0
- Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
- Solve number problems and practical problems that involve all of the above
- Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals

Year 6

- Read, write, order and compare numbers up to 10 000 000 (ten million) and determine the value of each digit

Millions			Thousands			Ones		
H	T	O	H	T	O	H	T	O