

Autumn Term 1 – Y3 Maths – Number and Place Value



Previously learned vocabulary

N numeral (y2)	Digit (y2)
Less than (y1)	Greater than (y1)
Tens (y1)	Ones (y1)
Place holder (y2)	Place value (y2)

Partition (y2)

New Vocabulary

Hundreds	One thousand
One hundred and one	One hundred and two... etc
Integer	Multiple

Hundreds

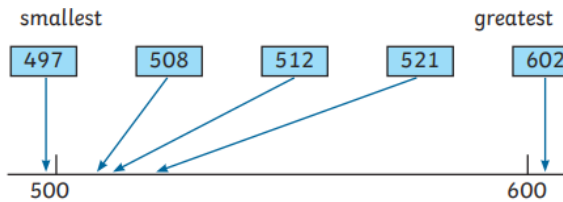
256 →

two hundred	fifty	six
200	50	6

Comparing numbers-Inequality Signs

Greater than	Less than	Equal to

Ordering numbers



10 and 100 More or Less

Ten Less		Ten More
120	130	140

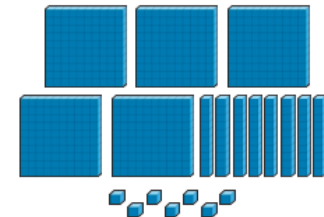
One Hundred Less		One Hundred More
212	312	412

Representing numbers to 1000

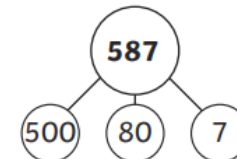
587

five hundred and eighty-seven

Hundreds	Tens	Ones



$$500 + 80 + 7$$



Hundreds	Tens	Ones

Counting in 4s, 8s, 50s and 100s

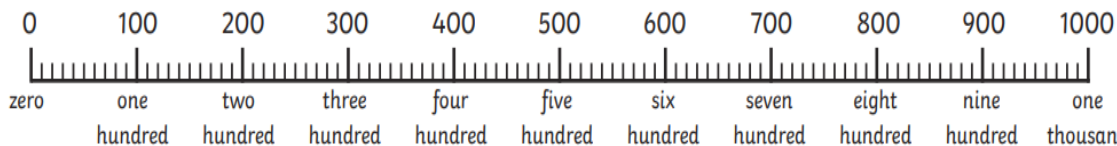
4s – 0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48

8s – 0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96

50s – 0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500

100s – 0, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000

Numerals and words to 1000



Autumn Term 1 – Year 4 Maths – Number and Place Value



Previously learned Vocabulary

hundreds (y3)	multiple (y3)
integer (y3)	one thousand (y3)
one hundred and one... one hundred and two etc (y3)	

New Vocabulary

thousand	derive
round	factor
Roman numerals	factor pairs
negative	

Count in multiples of 6, 7, 9, 25 and 1000.

Counting in 6s	0	6	12	18	24	30	36	42	48	54	60
Counting in 7s	0	7	14	21	28	35	42	49	56	63	70
Counting in 9s	0	9	18	27	36	45	54	63	72	81	90
Counting in 25s	0	25	50	75	100	125	150	175	200	225	250
Counting in 1000s	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10 000

Recognise the place value of each digit in a 4 digit number.

Th	H	T	O	t	h	th
Thousands 1000	Hundreds 100	Tens 10	Ones 1	Tenths 0.1	Hundredths 0.01	Thousandths 0.001

Read Roman numerals to 100.

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

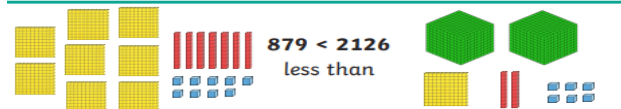
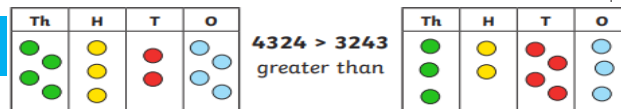
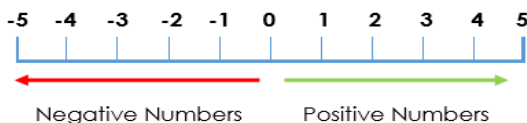
XVIII = 18

XXIX = 29

LXXXIV = 84

Order and compare numbers beyond 1000.

Count backwards through 0 including negative numbers.



2497	2508	3012	3521	3530	4002
smallest					greatest

Identify, represent and estimate numbers.

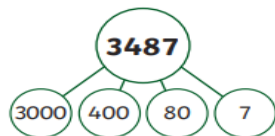
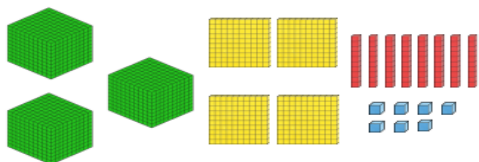


3487

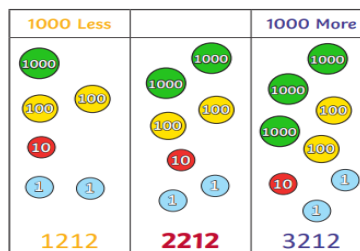
three thousand, four hundred and eighty-seven

1000s	100s	10s	1s
III	IIII	III III	III II

Thousands	Hundreds	Tens	Ones
1000 1000 1000	100 100 100	10 10 10 10	1 1 1 1



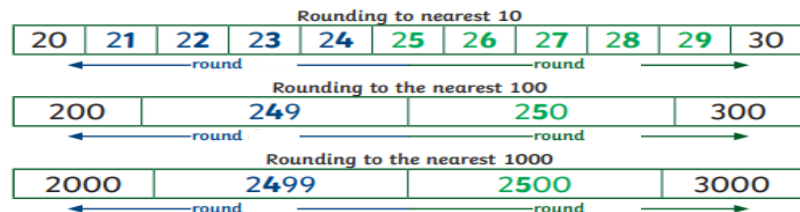
Find 1000 more or less than a given number.



Rounding to the nearest 10, 100 and 1000.



Look at the place value column to the right of the value you are rounding to. If the digit is a 4 or less, round to the previous multiple. If it is 5 or more, round to the next multiple



Autumn Term – Y3 Maths – Addition and Subtraction



Previously Learned Vocabulary	
Add (Y1)	Total (Y1)
sum(Y1)	more than (Y1)
altogether (Y1)	plus (Y1)
subtract (Y1)	take away (Y1)
less than (Y1)	Minus (Y1)
difference between (Y1)	column addition (Y2)
column subtraction (Y2)	estimate (Y2)
inverse (Y2)	estimation (Y2)
exchange	regroup
New Vocabulary	
Inverse operation	Commutative

Estimating

Estimate $167 - 89$
Use near numbers $170 - 90 = 80$

Near numbers:

413	279	521	782
↓	↓	↓	↓
400	300	500	800

Formal Written Methods

Addition

$$314 + 6 =$$

h	t	o
3	1	4
+		6
3	2	0
	1	

$$186 + 14 =$$

h	t	o
1	8	6
+	1	4
2	0	0
	1	

$$594 + 143 =$$

h	t	o
5	9	4
+	1	4
7	3	7
	1	

Subtraction

$$219 - 7 =$$

h	t	o
2	1	9
-		7
2	1	2

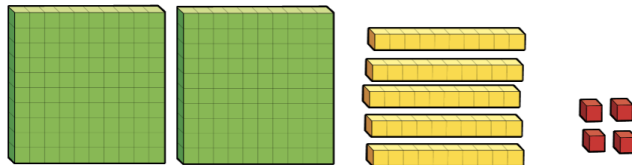
$$324 - 32 =$$

h	t	o
3	2	4
-	3	2
2	9	2

$$590 - 171 =$$

h	t	o
5	9	0
-	1	7
4	1	9

Base 10 to represent numbers



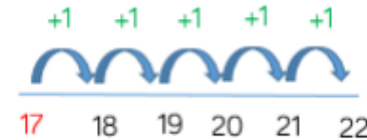
Base 10 alongside the formal written method

Hundreds	Tens	Ones
+		

	H	T	O
	1	5	6
+		6	3

Adding and subtracting 1s, 10s and 100s

$$17 + 5 =$$



Larger number in your head, add the smaller number.

Larger number in your head, subtract the smaller number.

$$22 - 7 =$$

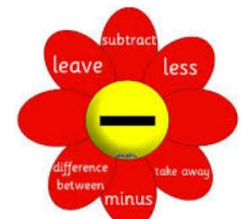


Checking calculations using the inverse

This part whole shows the inverse calculations using these three numbers.



$154 + 269 = 423$	$269 + 154 = 423$
$423 - 154 = 269$	$423 - 269 = 154$

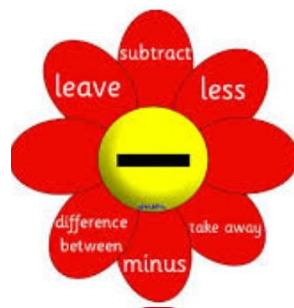




Autumn Term – Year 4 Maths – Addition and Subtraction



Previously Learned Vocabulary	
Words related to addition add/plus/more than	Words related to subtraction subtract/minus/take away/less than/ difference
Words related to the answer to an addition total/sum/altogether	
Estimate (y1)	Inverse (y2)
Exchange (y3)	associative
New Vocabulary	
Operation	Commutative



Add and subtract ones, tens, hundreds and thousands

Here is the number 6708

Thousands	Hundreds	Tens	Ones
6	7	0	8

Add 3 thousands = 9708

Subtract 4 hundreds = 9308

Add 5 tens = 9358

Subtract 7 ones = 9351

Using Inverse

3476	
2732	744

3476 – 744 = 2732 can be checked using
2732 + 744 = 3476

This part whole shows the inverse calculations using these three numbers.



1549 + 2688 = 4237	2688 + 1549 = 4237
4237 – 1549 = 2688	4237 – 2688 = 1549

Round to estimate

$$1635 + 386 = 2021$$

Round to the nearest ten

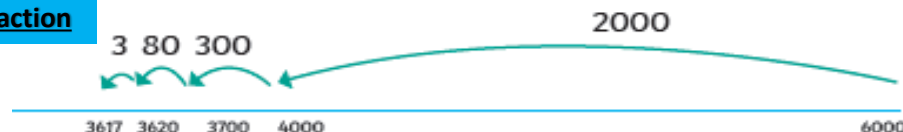
$$1640 + 390 = 2030$$

Round to the nearest hundred

$$1600 + 400 = 2000$$

Both give a reasonable estimate, but rounding the nearest ten is more accurate.

Efficient subtraction



Calculate $6000 - 3617 = 2383$

Checking strategies

Adding in a different order

$$420 + 372 + 280 =$$

Change to

$$420 + 280 + 372 =$$

$$\text{As } 420 + 280 = 700$$

$$(\text{because } 42 + 28 = 70)$$

$$420 + 280 + 372 = 700 + 372 = 1072$$

Column subtraction

One exchange

$$\begin{array}{r} 61 \\ 5749 \\ - 3471 \\ \hline 2278 \end{array}$$

Starting with the ones, subtract each column in turn. When subtracting 4 tens - 7 tens, exchange 1 hundred to make:
14 tens - 7 tens = 7 tens

Multiple exchanges

$$\begin{array}{r} 6131 \\ 5742 \\ - 3476 \\ \hline 2266 \end{array}$$

Starting with the ones, subtract each column in turn. Exchange tens, hundreds and/ or thousands as required.

Column addition

Exchange once

$$\begin{array}{r} 5162 \\ + 3497 \\ \hline 8659 \\ \hline 1 \end{array}$$

Starting with the ones, add each column in turn. When adding 6 tens + 9 tens = 15 tens = 1 hundred = 5 tens.

Place 1 hundred under the equal sign on the hundred column and the 5 tens in the answer.

Regroup multiple times

$$\begin{array}{r} 5864 \\ + 3497 \\ \hline 9361 \\ \hline 111 \end{array}$$

Starting with the ones, add each column in turn. Exchange tens, hundreds and/ or thousands as required.