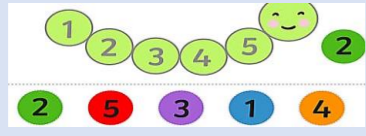



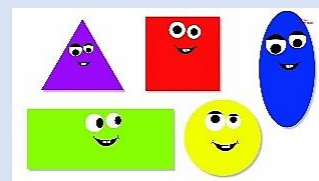
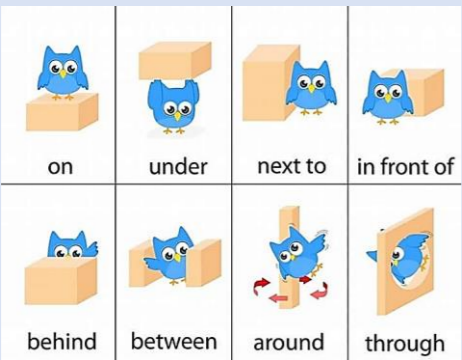

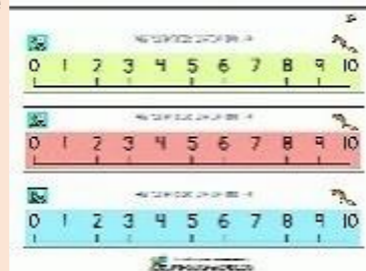

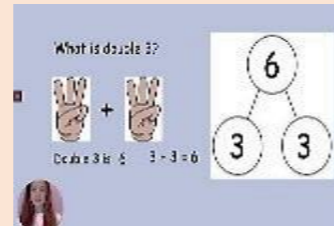

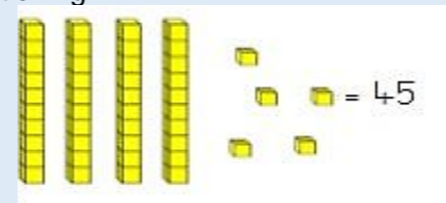
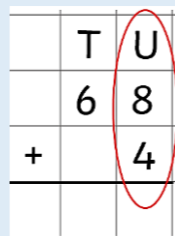
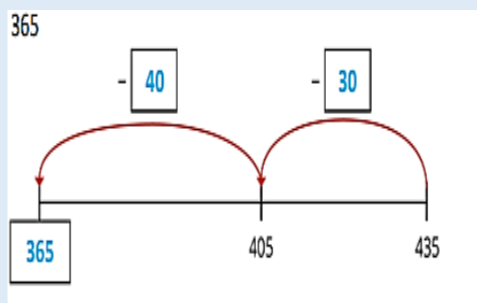
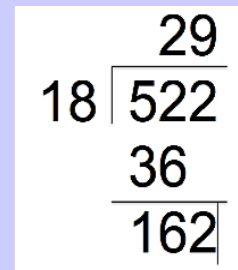
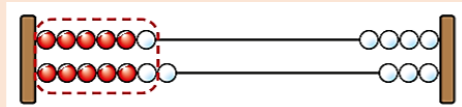


Cycle B White Rose Whole School Autumn 1

	Year R	Year 1/2	Year 3/4	Year 5/6																																																												
Autumn 1	<p>Just Like Me!</p> <ul style="list-style-type: none"> Matching, sorting and comparing amounts  <p>It's me 1, 2, 3!</p> <ul style="list-style-type: none"> Representing and comparing 1, 2 & 3  <p>Compare size, mass and capacity.</p>  <p>Composition of 1 2 & 3</p>  <p>Circles and triangles</p>  <p>Positional Language</p> 	<p>Place Value (within 20)</p> <ul style="list-style-type: none"> Count objects within 10 Represent numbers to 10 Count on and back within 20 Understand 10/11-15 Understand 16/20  <ul style="list-style-type: none"> 1 more & 1 less The number line/Estimating on a number line  <ul style="list-style-type: none"> Less than, greater than, equal to  <ul style="list-style-type: none"> Comparing numbers Ordering numbers <p>Addition and subtraction The Part-Whole Model</p>  <ul style="list-style-type: none"> Number bonds to 10 Number bond to 20 Addition problems Doubles 	<p>Place Value</p> <ul style="list-style-type: none"> Represent numbers to 100, 10s and ones Represent numbers to 1000 Partition numbers to 1000 Represent 1000 Partition numbers 10,000 Flexi partitioning  <ul style="list-style-type: none"> Finding 1, 10, or 1000 more or less Number lines to 10,000 Estimate on a number line Compare numbers Order numbers Round to the nearest 10/100 or 1000 Roman numerals <table border="1" data-bbox="1587 924 2018 1165"> <tr> <td>1</td><td>I</td> <td>11</td><td>XI</td> <td>50</td><td>L</td> </tr> <tr> <td>2</td><td>II</td> <td>12</td><td>XII</td> <td>100</td><td>C</td> </tr> <tr> <td>3</td><td>III</td> <td>13</td><td>XIII</td> <td>500</td><td>D</td> </tr> <tr> <td>4</td><td>IV</td> <td>14</td><td>XIV</td> <td>1000</td><td>M</td> </tr> <tr> <td>5</td><td>V</td> <td>15</td><td>XV</td> <td></td><td></td> </tr> <tr> <td>6</td><td>VI</td> <td>16</td><td>XVI</td> <td></td><td></td> </tr> <tr> <td>7</td><td>VII</td> <td>17</td><td>XVII</td> <td></td><td></td> </tr> <tr> <td>8</td><td>VIII</td> <td>18</td><td>XVIII</td> <td></td><td></td> </tr> <tr> <td>9</td><td>IX</td> <td>19</td><td>XIX</td> <td></td><td></td> </tr> <tr> <td>10</td><td>X</td> <td>20</td><td>XX</td> <td></td><td></td> </tr> </table> <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Add and subtract 1's 10's 100's and 1000  <ul style="list-style-type: none"> Add 1s 10s 100s 1000s across a boundary Subtract 1s 10s 100s across a boundary 	1	I	11	XI	50	L	2	II	12	XII	100	C	3	III	13	XIII	500	D	4	IV	14	XIV	1000	M	5	V	15	XV			6	VI	16	XVI			7	VII	17	XVII			8	VIII	18	XVIII			9	IX	19	XIX			10	X	20	XX			<p>Place Value</p> <ul style="list-style-type: none"> Roman Numerals to 1000 Numbers to 1000,000 Numbers to 1,000,000 Read and write to 1,000,000 Numbers to 10,000,000 Read and write number to 10,000,000 Powers of 10 Partition number to 10,000,000 Number line to 10,000,000 Compare and order any integers Round within 1000,00 Round any integer Count through zero Compare and order negative numbers Negative numbers <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;">24,423</div> <div style="border: 1px solid black; padding: 5px;">123,226</div> <div style="border: 1px solid black; padding: 5px;">990,909</div> </div> <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Metal strategies Add/subtract integers Inverse operation and missing numbers Reason from known facts. <p>Multiplication and division A Multiples</p> <ul style="list-style-type: none"> Common multiples Factors Common factors Rules of divisibility Prime numbers Square and cube numbers Multiply by 10, 100 and 1000 
	1	I	11	XI	50	L																																																										
2	II	12	XII	100	C																																																											
3	III	13	XIII	500	D																																																											
4	IV	14	XIV	1000	M																																																											
5	V	15	XV																																																													
6	VI	16	XVI																																																													
7	VII	17	XVII																																																													
8	VIII	18	XVIII																																																													
9	IX	19	XIX																																																													
10	X	20	XX																																																													

Cycle B White Rose Whole School Autumn 1

- Near doubles

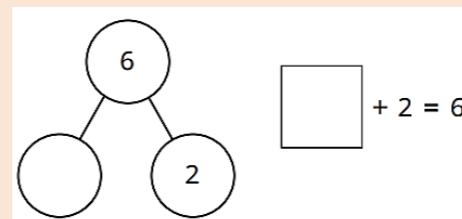


- Adding three digits with one digit

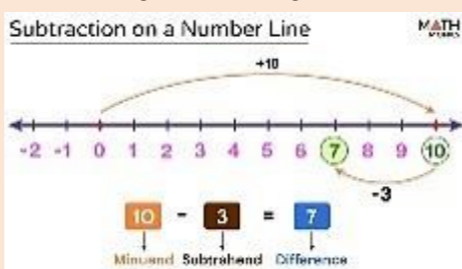


$$4 + 4 + \square = \square$$

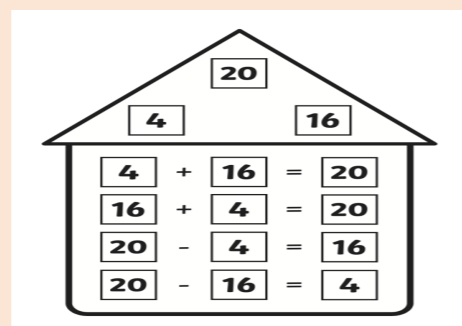
- Finding a part



- Subtracting/subtracting on a number line

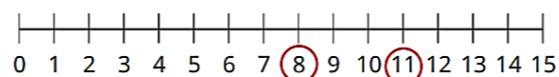


- Fact families



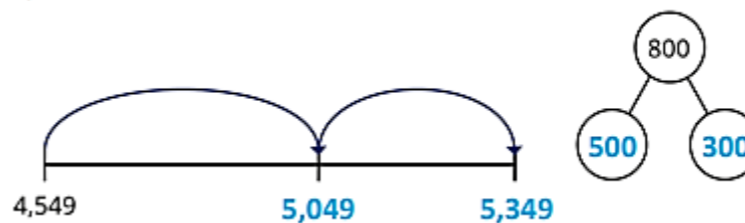
- Take away (how many left?)
- Find the difference
- Missing number problems

b) $\square + 8 = 11$



- Make connections

5,349



- Add up to two four-digit numbers across 10/100/1000
- Add numbers with different number digits
- Subtracting up to two 4-digit number no exchange

$$50 + 60 = 110$$

$$500 + 600 = 1,100$$

$$60 + 50 = 110$$

$$600 + 500 = 1,100$$

$$110 - 50 = 60$$

$$1,100 - 500 = 600$$

$$110 - 60 = 50$$

$$1,100 - 600 = 500$$

	H	T	O
	6	8	3
+		9	5
	7	7	8

	H	T	O
	9	5	6
+		3	8
	9	9	4

- Subtract up to two 4-digit numbers – no exchange
- Subtract up to two 4-digit numbers (across a 10)
- Subtract up to two 4-digit numbers (across a 100)
- Subtract up to two 4-digit numbers (across a 1,000)
- Subtract numbers with a different number of digits
- Complements to 100 and 1,000
- Estimate answers
- Inverse operations
- Efficient methods

Cycle B White Rose Whole School Autumn 1

$$\begin{array}{r} 7517 \\ - 3819 \\ \hline \hline \end{array}$$

Multiplication and division A

- Multiples
- Common multiples
- Factors
- Common factors
- Rules of divisibility
- Prime numbers
- Square and cube numbers
- Multiply by 10, 100 and 1000

Fractions A

- Recognise equivalent fractions
- Equivalent fractions and simplifying
- Equivalent fractions on a number line
- Convert improper fractions to mixed numbers
- Convert mixed number to improper fractions
- Compare fractions (denominator)
- Compare fractions (numerator)
- Order fractions
- Add and subtract fractions with the same denominator
- Add fractions where one denominator is a multiple of the other
- Add mixed numbers
- Subtract fractions where one denominator is a multiple of the other
- Subtract any two fractions
- Subtract from a mixed number – breaking the whole
- Multi-step problems