Year 3 /4

Addition

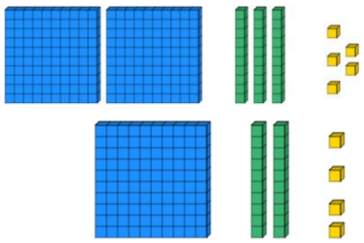
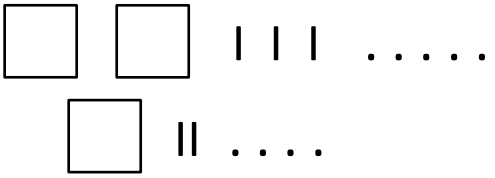
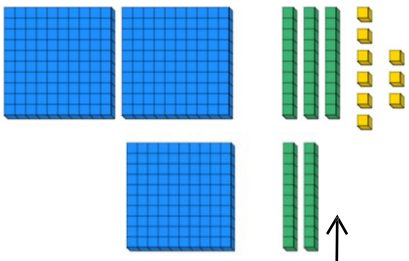
addend + addend = sum

addend
+ addend
sum

Column addition expanded method

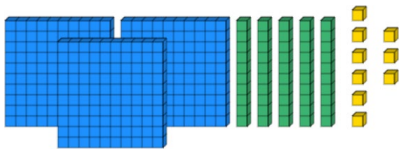
235 + 124 =

Compact method to be introduced to Year 3 in summer term. Year 4 to show both methods alongside one another until summer term and then only use the compact method.

Step 1 H T O 	200 + 30 + 5 + 100 + 20 + 4 _____	Children can draw squares for hundreds, lines for tens and small circles for ones. 
Step 2 H T O  Push resources up	200 + 30 + 5 + 100 + 20 + 4 9 _____	2 3 5 + 1 2 4 9 _____

Step 3

H	T	O



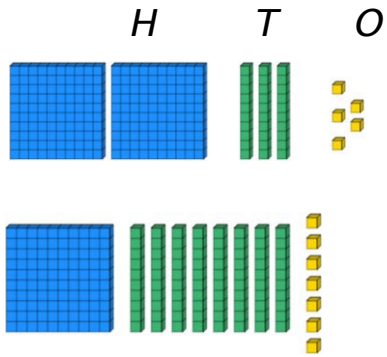
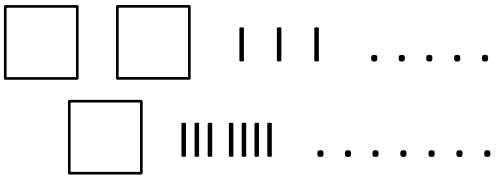
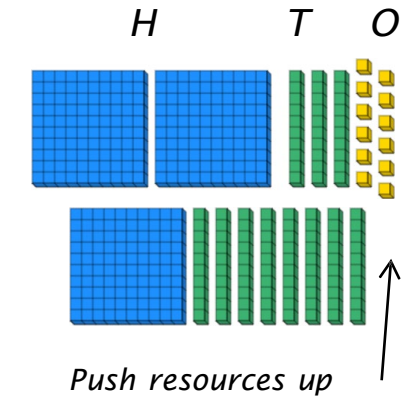
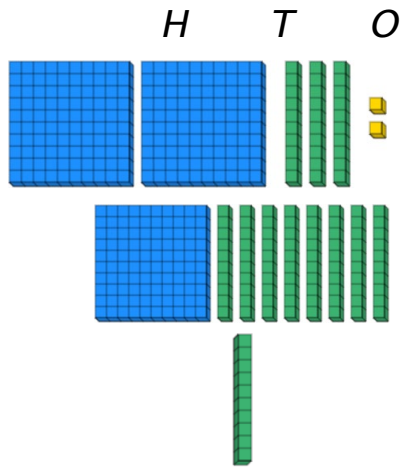
Push resources up

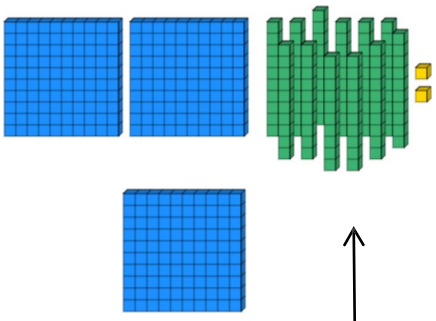
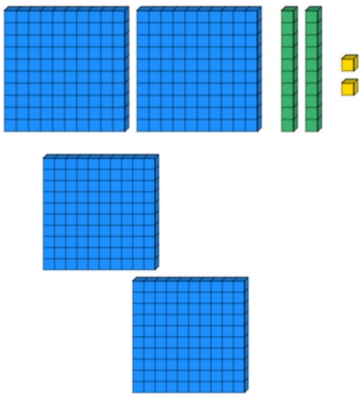
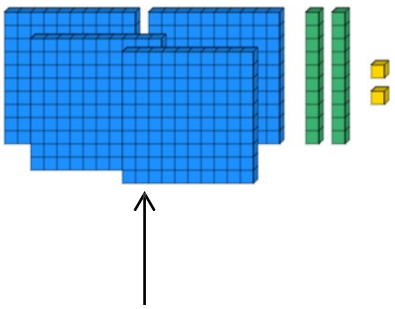
$$200 + 30 + 5$$
$$+ \quad 100 + 20 + 4$$
$$300 + 50 + 9$$

$$\begin{array}{r} 2\ 3\ 5 \\ +\ 1\ 2\ 4 \\ \hline 3\ 5\ 9 \end{array}$$

359 whole	
235 part	124 part

235 + 187 =

Step 1 	200 + 30 + 5 + 100 + 80 + 7 _____	Children can draw squares for hundreds, lines for tens and small circles for ones. 
Step 2 	200 + 30 + 5 + 100 + 80 + 7 _____	2 3 5 + 1 8 7 _____
Step 3 	200 + 30 + 5 + 100 + 80 + 7 + 2 _____ 10 I can regroup 10 ones for 1 ten.	2 3 5 + 1 8 7 2 _____ 1

Step 4 H T O  Push resources up	200 + 30 + 5 + 100 + 80 + 7 + 2 10	2 3 5 + 1 8 7 2 1
Step 5 H T O 	200 + 30 + 5 + 100 + 80 + 7 + 20 + 2 100 10 I can regroup 10 tens for 1 hundred.	2 3 5 + 1 8 7 2 2 1 1
Step 6 H T O  Push resources up	200 + 30 + 5 + 100 + 80 + 7 400 + 20 + 2 100 10	2 3 5 + 1 8 7 4 2 2 1 1

422 whole	
235 part	187 part

Year 3

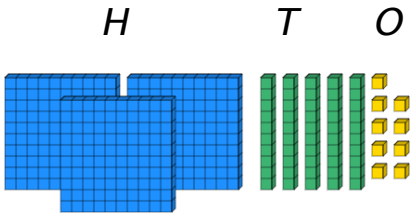
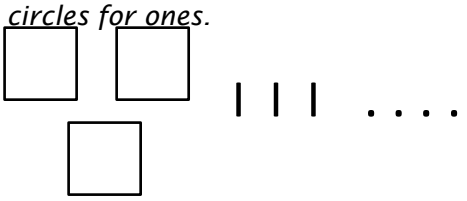
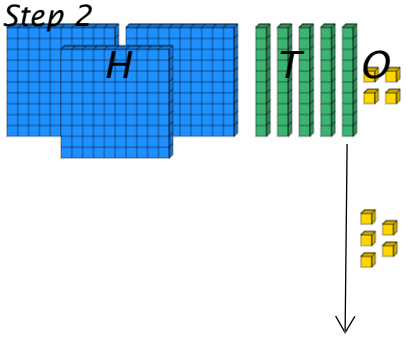
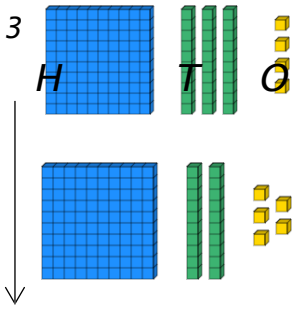
Subtraction

minuend - subtrahend = difference

Column subtraction expanded method

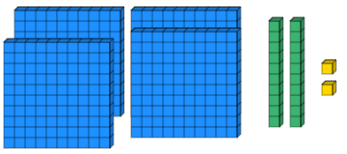
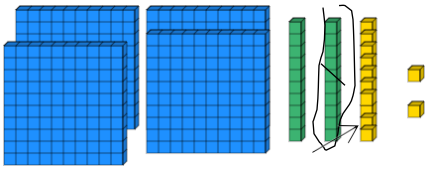
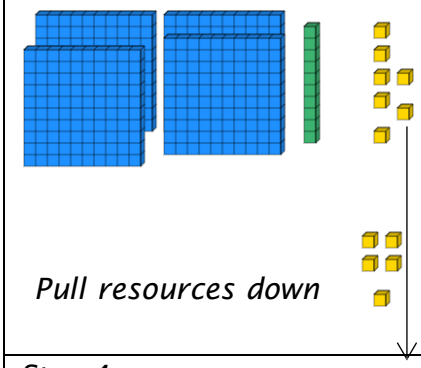
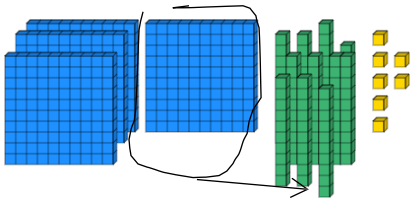
minuend
- subtrahend
difference

359 – 235 =

Step 1  	300 + 50 + 9 - 200 + 30 + 5	Children can draw squares for hundreds, lines for tens and small circles for ones. 
Step 2  	300 + 50 + 9 - 200 + 30 + 5 4	3 5 9 - 2 3 5 4
Pull resources down Step 3  	300 + 50 + 9 - 200 + 30 + 5 100 + 20 + 4	359 whole 235 part | 124 part 3 5 9 - 2 3 5 1 2 4

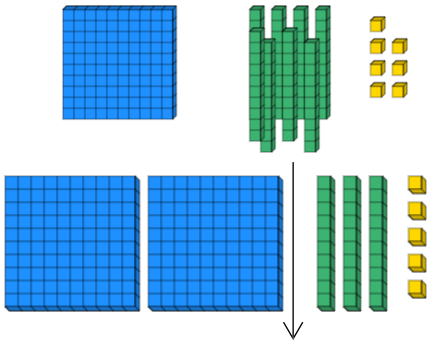
Pull resources down

422 - 235 =

Step 1 H T O 	400 + 20 + 2 - 200 + 30 + 5 _____	4 2 2 - 2 3 5 _____
Step 2 H T O  I can regroup 1 ten for 10 ones.	10 10 + 400 + 20 + 2 - 200 + 30 + 5 _____	4 $^{1}2$ $^{1}2$ - 2 3 5 _____
Step 3 H T O  Pull resources down	10 10 + 400 + 20 + 2 - 200 + 30 + 5 _____	4 $^{1}2$ $^{1}2$ - 2 3 5 _____
Step 4 H T O  I can regroup 1 hundred for 10 tens.	10 10 + 400 + 20 + 2 - 200 + 30 + 5 7	4 $^{1}2$ $^{1}2$ - 2 3 5 7

Step 5

H T O



Pull resources down

300 100 + 10 + 10 +

400 + 20 + 2

\- 200 + 30 + 5

100 + 80 + 7

3 4 1 1 2 1 2

\- 2 3 5

1 8 7

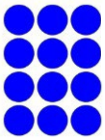
422 whole	
235 part	187 part

Year 3

Multiplication

multiplier x multiplicand = product

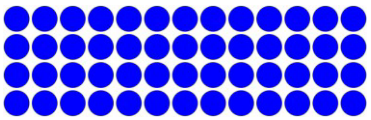
4 x 3



4 rows of 3

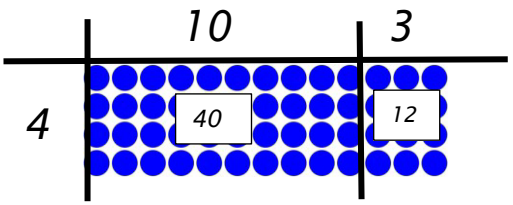
4 x 13

4 rows of 13



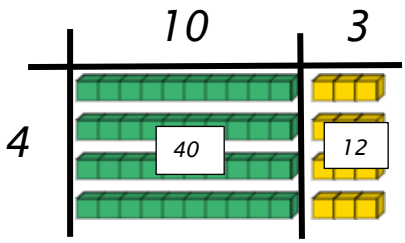
4 x 13

4 rows of 13



4 x 13

4 rows of 13



4 x 13

x	10	3
4	40	12

40 + 12 = 52

Year 3

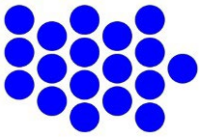
Division

dividend ÷ divisor = quotient

quotient

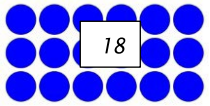
divisor ⟌ dividend ← *This is the division bracket.*

18 ÷ 3 = 6



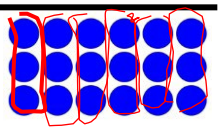
6

3 ⟌ *18*



6

3 ⟌



6

3 ⟌ *18*