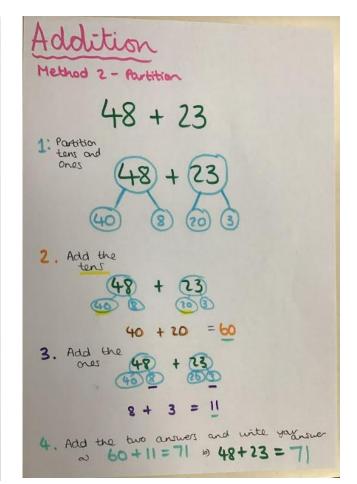
Calculation Methods Year 2 – Maths

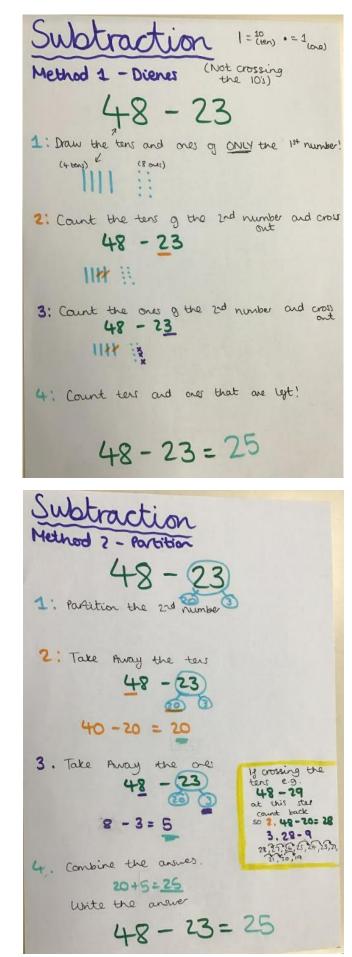
<u>Addition -</u> In Year 2, we learn to add two digit numbers within 100. We work on methods which allow us to cross the 10. We use a variety of methods including: dienes, partitioning and number lines. These methods help prepare the children for the more formal column method in Year 3.

|= 10 ·=1 (ten) (one) ion Method 1 - Dienes 48 + 23 1: Draw the tens and ones (4 tens) (800es) 11 :-2: Count the tens 11: L10,20,30,40) (50,60) 3. Count on from this number (so in this case from 60) in your ones III H II N 60... 61,62,65, 69,70, 64,63,66, 71 67 .68 4. Write your answer 48 + 23 =



Addition
Method 3 - Number line
48 + 23
1: Draw the number line, putting the greatest number at this end
48
2. Partition the 2nd number 48 + 23
3. Draw & caunt the jumps of 10 a) 10 10
48 (52) 68
W Draw & caunt on the junips of 1 +10 +10 +1 +1 +1 48 68 69 10 71
4. Write your answer
48 + 23 = 71

<u>Subtraction -</u> In Year 2, we learn to take away one and two digit numbers including crossing the 10. We use dienes, partitioning and counting back on number lines. Just like with addition these methods help prepare the children for the more formal column method in Year 3.



subtraction 1= times ·= 1 (one) Method 1 - Dienes (Crossing the 48-29 1: Draw the tens and ones of onet the 1st number! (4 tens) (8 ares) 2: Count the tens of the 2nd number and cross out 48 - 29 1141 3: Count the ones of the 2nd number - you cannot cross the ones out as there are not enough so we have to exchange! Ten ones = One ten 48 - 29 HAL !! 4: We now have enough ones to cross ant! Cross 48 - 29 them out! 5: Count the tens and oney that are left and write your answer! 48-29=19 +8 - 231: Draw the numberline, putting the greatest number 48 2: Partition the 2nd number 48 - 23) 6 3 3: Draw & can't back the jumps of 10 2) 48 5) 26 27 28 4: Write you answer 48-23=25

<u>Multiplication -</u> We look at multiplication as being equal groups of given amounts. We encourage the drawing of multiplication questions as below. We do start looking at formal times tables in Year 2, with the 2, 5 and 10 times tables. Some children will also having a growing knowledge of the 3 times table.

Multiplication
3×5
3 groups of 5
1: Draw how many groups
000
2: Draw the second number equally who each group
3: Count up all the dots
4: Write your answer $3 \times 5 = 15$

<u>Division -</u> We look at the two main ways of looking at division: grouping and sharing. Grouping is when you put the items into groups of a certain size, whilst sharing is when you share the given number between a set number of groups.

