.

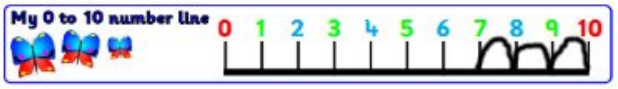
Bluebell Primary School

Calculations Crib Sheet

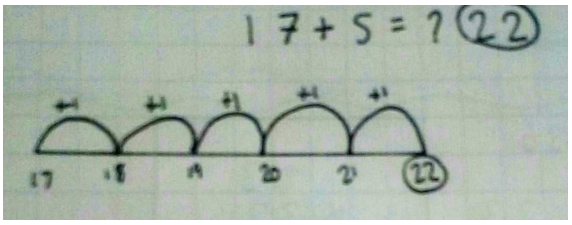
Addition.

Stage A: Count on in ones using a number line

Example 1 eg 7+3=?

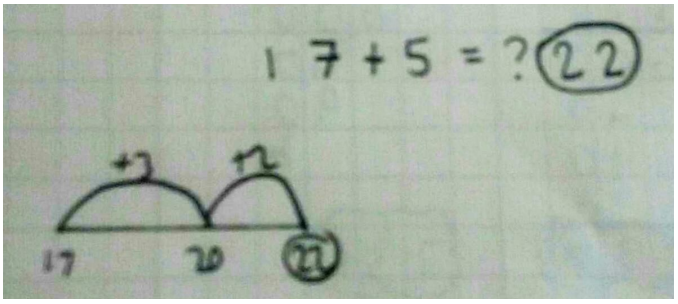


Example 2: 17 + 5=?

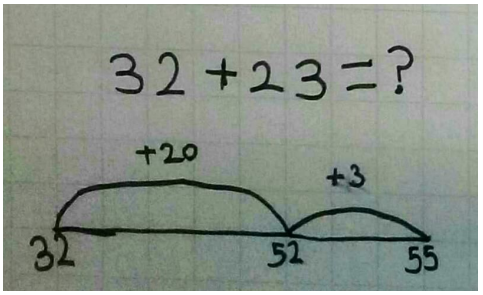


Progress to more efficient jumps

Example 3: 17 + 5=?

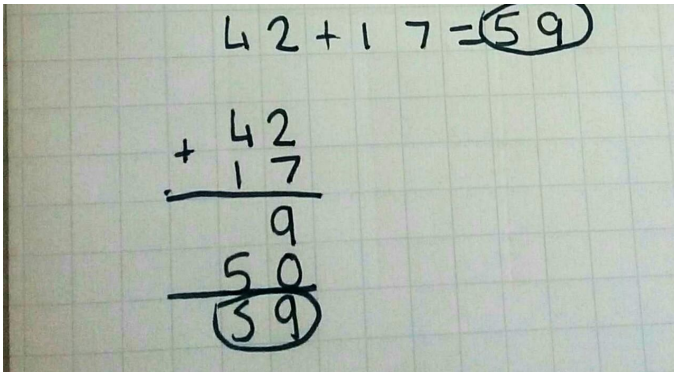


Example 4: 32 + 23=?

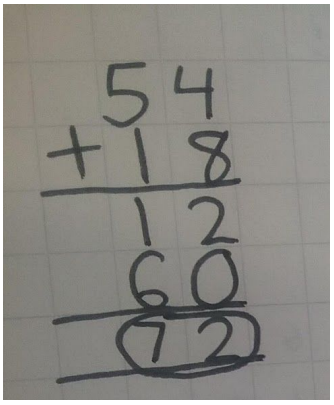


Stage B: Expanded Form

Example 1: 42 + 17=?

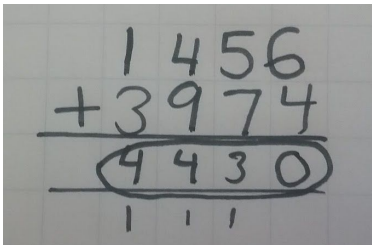


Example 2: 54+18=?

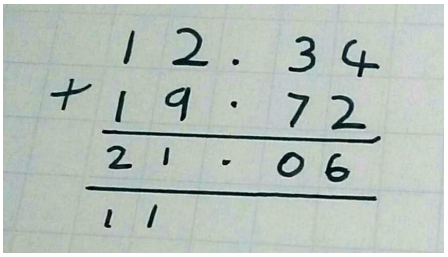


Progress to the contracted method

Example 4:
eg 1456+3974=?



Example 5: eg 12.34+ 19.72=?

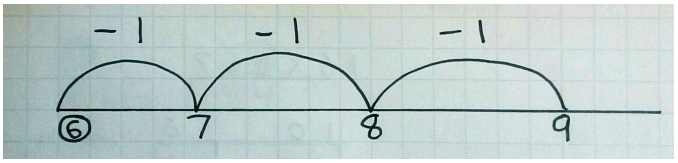


Subtraction

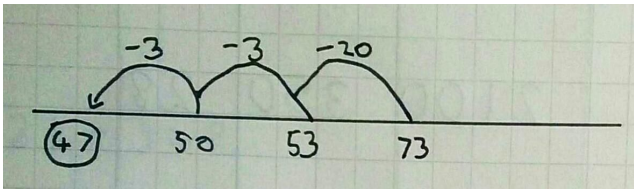
Stage A: Using a number line (counting on and back)

Taking away

Example 1: eg 9-6=?

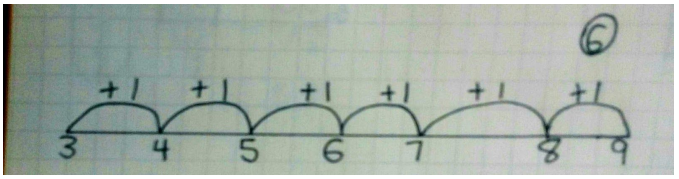


Example 2: eg 73–26=?

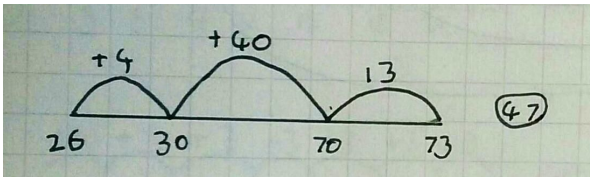


Finding the difference

Example 1: eg 9-6=?

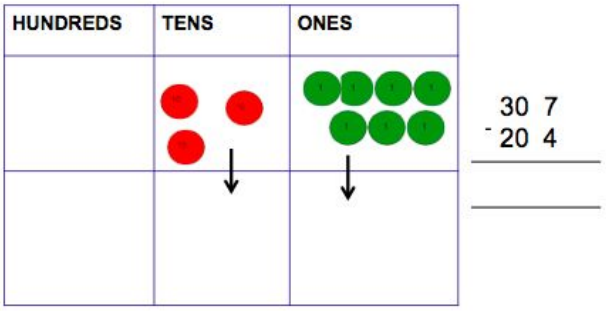


Example 2: eg 73–26=?

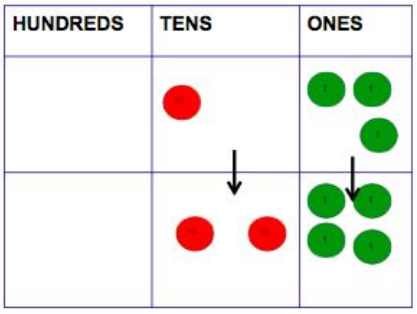


Stage B: Vertical Partitioning (using place value counters)

Example 1: eg 98-35=?

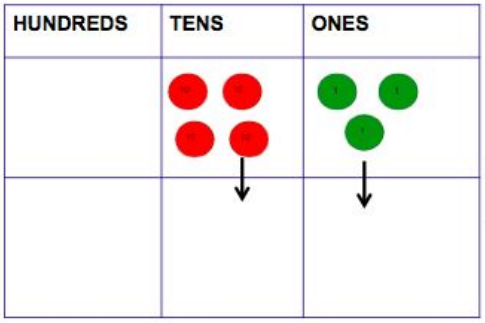


30 7
- 20 4

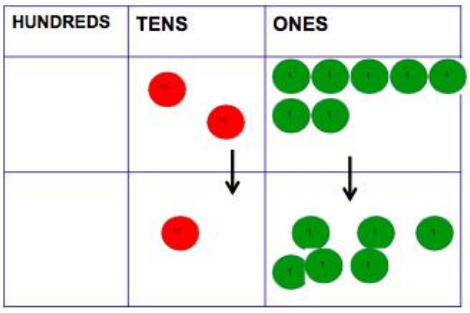


30 7
- 20 4
10 + 3
1 3

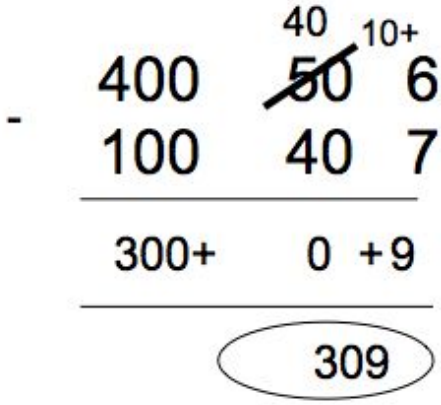
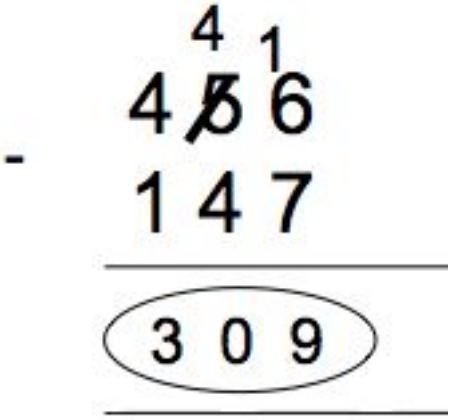
Example 2: eg 43-17=? (with exchanging)



40 3
- 10 7



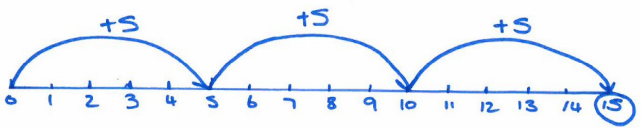
30 10+
40 3
- 10 7
20+ 6
26

Develop into the compact method	
Example 1: 456 - 147 = ?	
Once children have a good understanding of this method then they can begin to use the compact method.  	

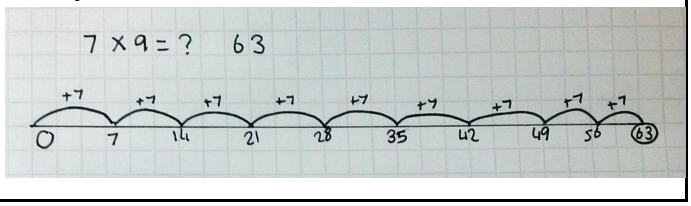
Multiplication

Stage A: Number Line (repeated addition)

Example 1: 5 x 3= 15

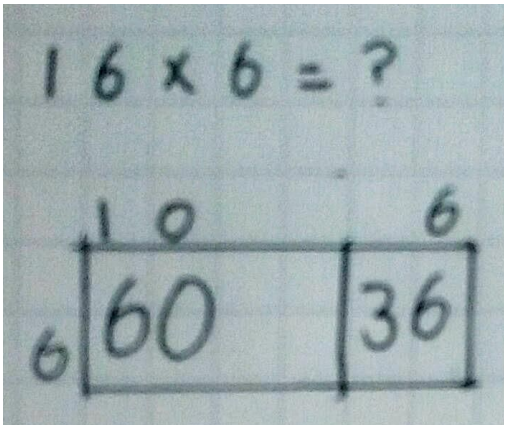


Example 2: 7 x 9=63

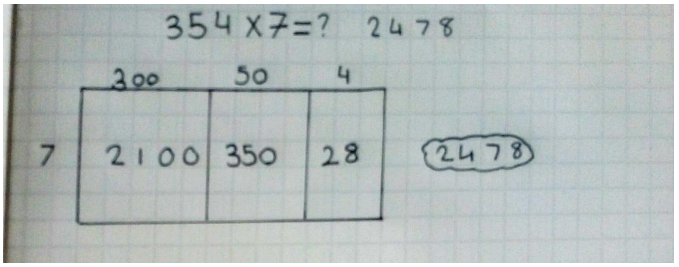


Stage B: Informal array written method

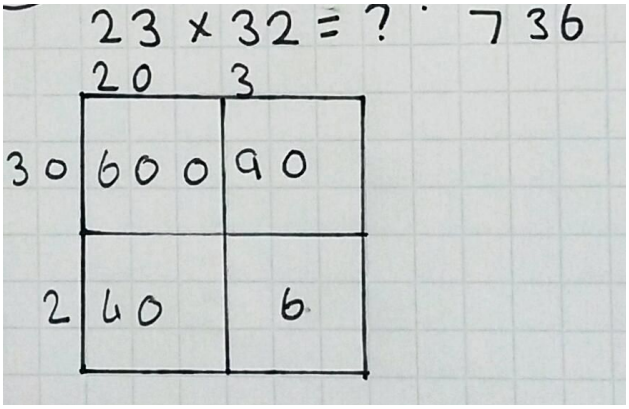
Example 1 eg 16 x 6 = ?



Example 2: eg 354 x 7 = ?

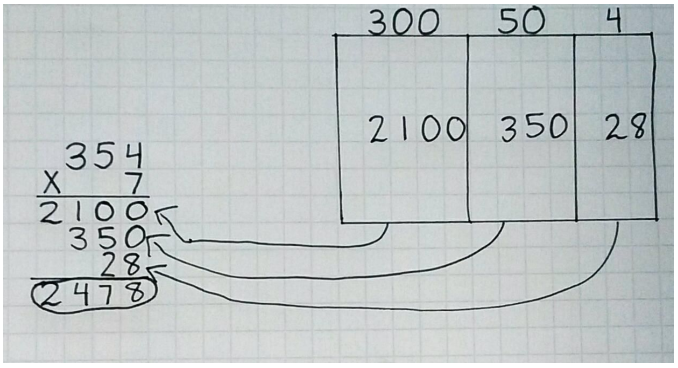


Example 4: eg 23 x 32 = ?

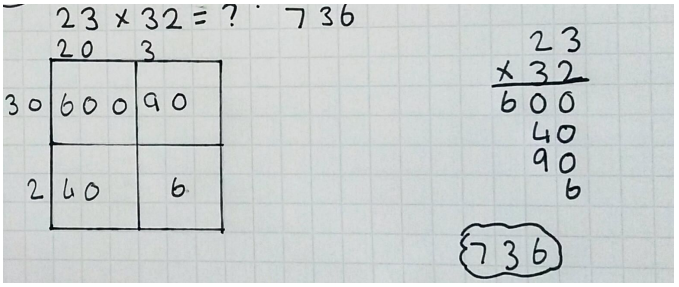


Stage C: Begin using the array grid

Example 1: eg 346x 7=?

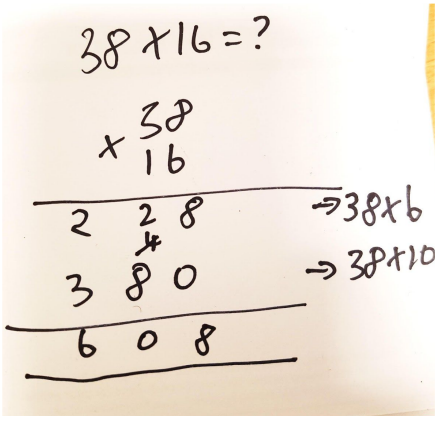


Example 2: eg 23 x 32=?

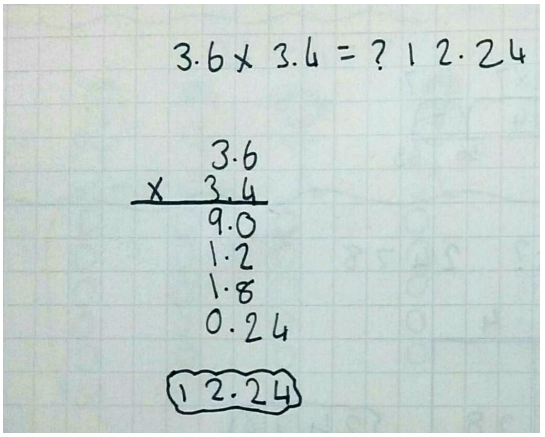


Progress to column method without the array grid

Example 3: 38 x 16 = ?



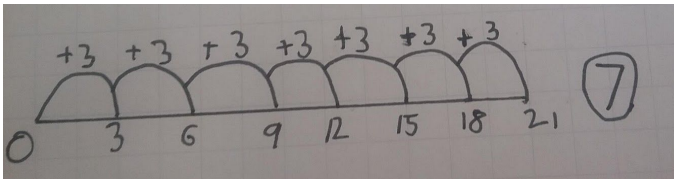
Example 4: eg 3.6 x 3.4=?



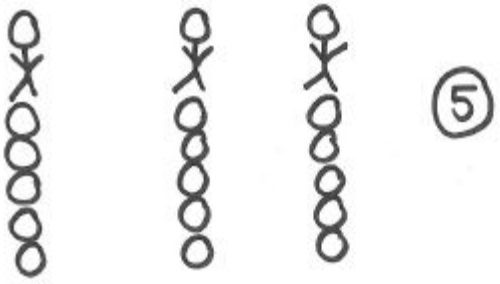
Division

Stage A: Pictorial Methods

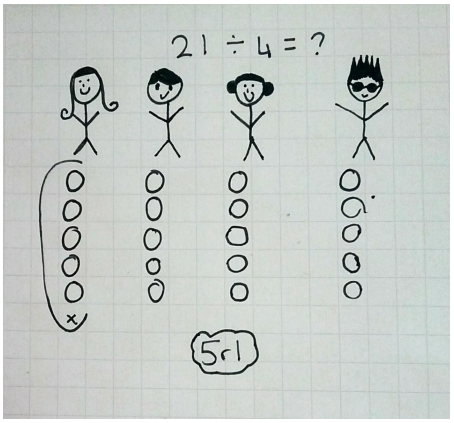
Example 1: eg 21 ÷ 3 =?



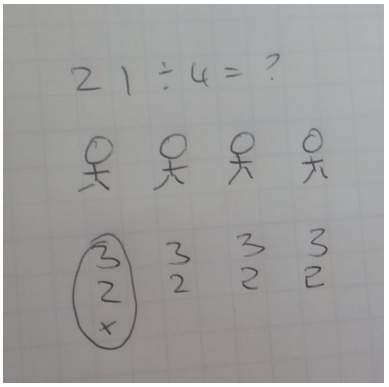
Example 2: eg 15 ÷ 3 =?



Example 3a: eg 21 ÷ 4 =?



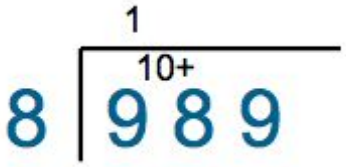
Example 3b: eg 21 ÷ 4 =?



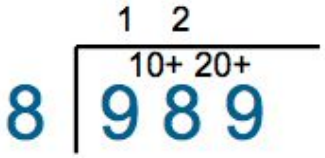
Stage C: Compact Bus Stop Method

Example 3: 989 ÷ 8 =?

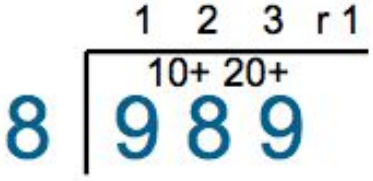
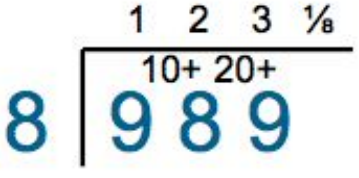
Step 1:



Step 2:



Step 3:



Optional Step 4: