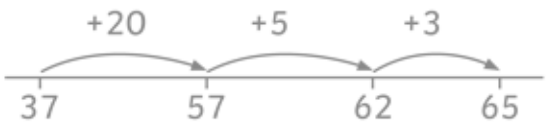
Aston Rowant C†E Primary School

CALCULATION STRATEGIES FOR YEAR 1 & 2

Addition

The different stages	Examples
Stage 1 Counting sets of objects.	N/A
Stage 2 Combining two sets of objects into one group and counting practically.	For 5 + 3 the children may get 5 objects, and then 3 more and count how many altogether.
Stage 3 Drawing dots - informal jottings. Then counting how many altogether.	3 + 5 = 8 ● ● ● + ● ● ● ● ●
Stage 4 Counting on, on a number line with numbers on it.	5 + 3 = 8 
Stage 5 Steps in addition can be recorded on a number line. The steps often bridge through a multiple of 10. 1) Partition the smaller numbers into tens and ones. 2) Add on the tens. 3) Add on the ones.	7 + 8 = 15  37 + 28 = 65 

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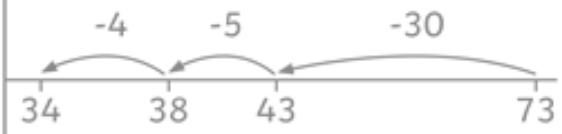
CALCULATION STRATEGIES FOR YEAR 1 & 2

Subtraction

The different	Examples
Stage 1 Practically get a group of objects together and then take some away.	N/A
Stage 2 Jottings - draw a set of marks, and then cross some out.	12 - 5 = 7 
Stage 3 Count back on a number line with numbers already on it.	12 - 3 = 9 
Stage 4 Using a number line. Work by counting back. Also work out the difference by counting on.	73 - 39 = 34  Work out the difference between 47 and 86 = 39 

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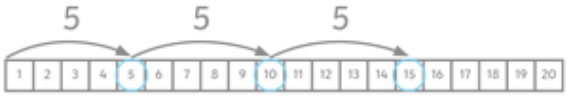
Multiplication

The different stages	Examples
Stage 1 Counting practically in repeated groups/patterns.	N/A
Stage 2 Grouping	4 x 2 = 8 
Stage 3 Arrays	4 x 2 = 8 or 2 x 4 + 8 
Stage 3 Repeated addition Repeated addition can be shown easily on a number line.	5 x 3 is 5 + 5 + 5 = 15 or 3 lots of 5 

The times tables needed to be learned by the end of Y2 are:

- 2 times table
- 5 times table
- 10 times table

Within this, talk about other ways to find answers using known facts i.e.

6 x 3 is 5 x 3 and then 1 x 3

9 x 3 is 10 x 3 and then take away 3

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CALCULATION STRATEGIES FOR YEAR 1 & 2

Division

The different stages	Examples
Stage 1 Children will develop their understanding of division and use jottings to support calculation.	8÷2 Sharing equally 8 sweets shared between 2 people, how many do they each get? 
Stage 2 Grouping	Grouping or repeated addition There are 8 sweets, how many people can have 2 sweets each? 
Stage 3 Arrays	Arrays can also be used. 
Stage 4 Repeated addition Repeated addition can be shown easily on a number line.	