Weston Favell CE Primary School
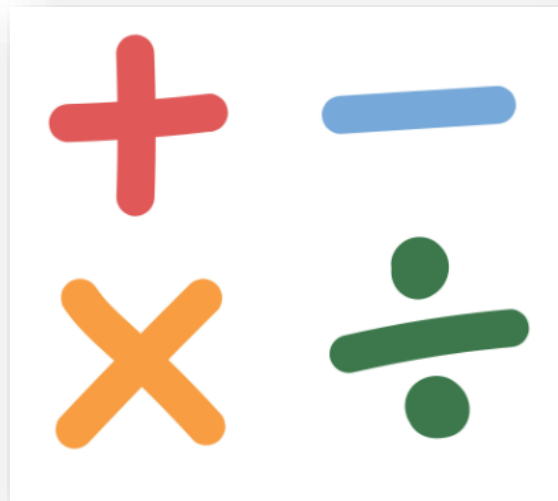
Calculation Guide

Year 1

This calculation guide will demonstrate the written calculation strategies that are covered for addition, subtraction, multiplication and division.

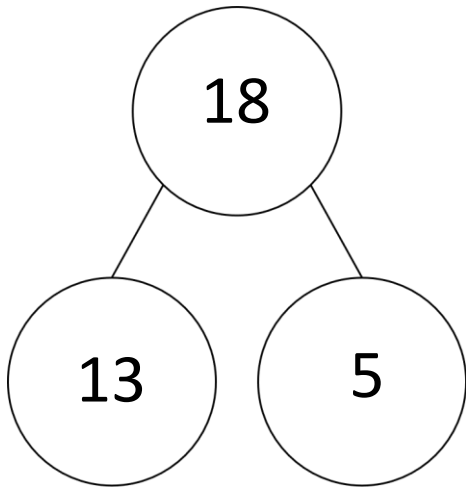Practising these will help in preparation for Year 2 and beyond!

If you have any questions or need any further support, please ask your class teacher and they will be happy to help you.
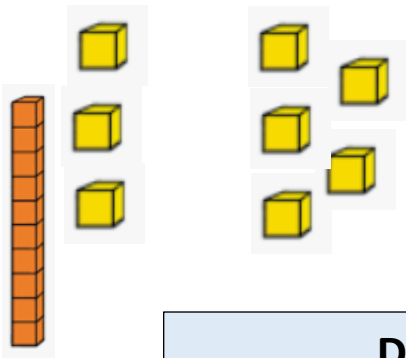
Addition

$$8 + 9 = 17$$
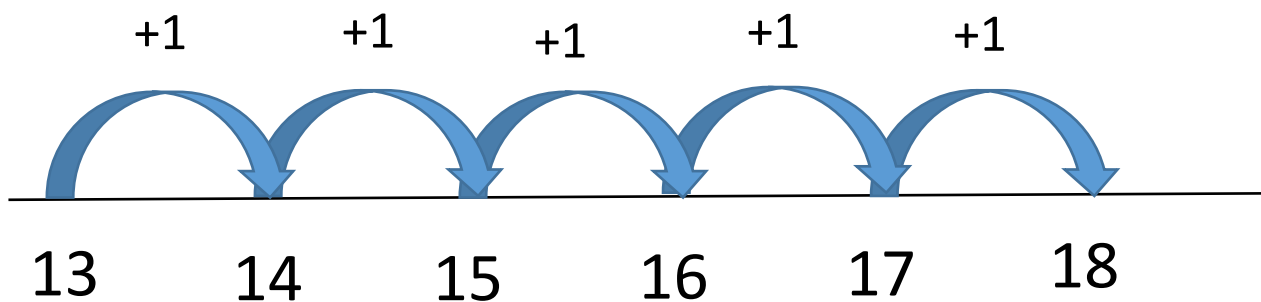
addend + addend = sum

Example question: 13 + 5

18

13   5

A part/part whole model

18	
13	5

A bar model

Drawing Base 10 Equipment

+1   +1   +1   +1   +1

13   14   15   16   17   18

A number line

NORTHAMPTON
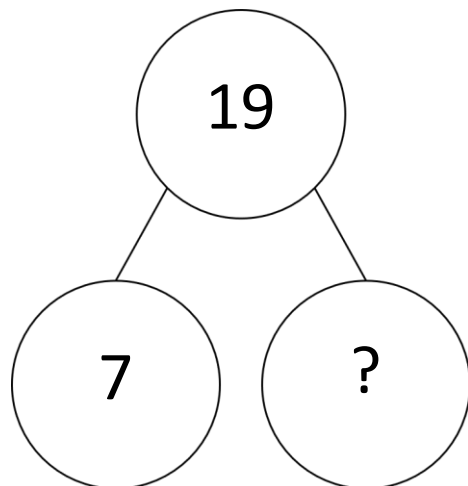PRIMARY ACADEMY TRUST

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Subtraction
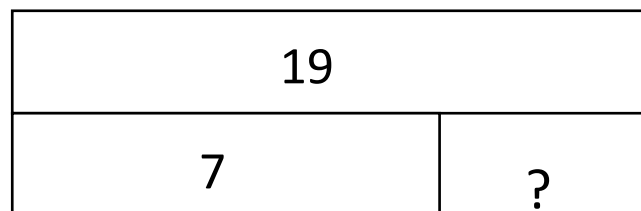## (Finding the Difference)
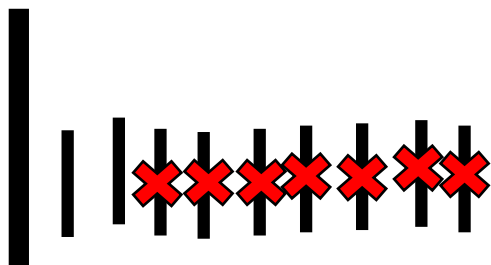
$$17 - 9 = 8$$

minuend - subtrahend = difference
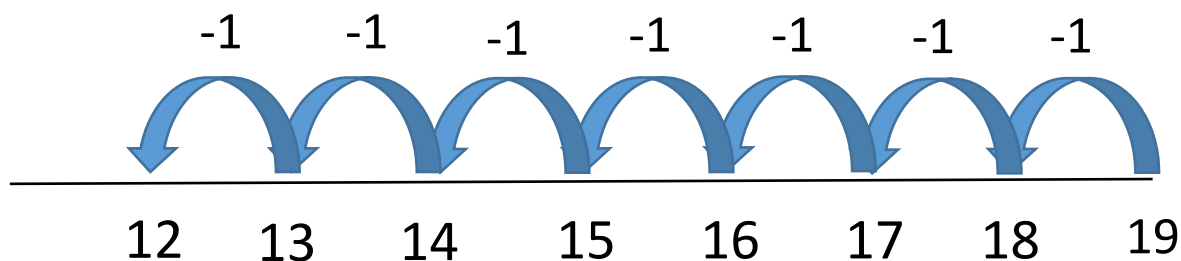
Example question: 19 – 7

19

7   ?

A part/part whole model

19	
7	?

19	
7	?
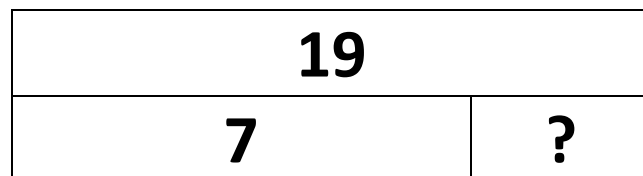
A bar model

Drawing Base 10 Equipment: Crossing off method

-1   -1   -1   -1   -1   -1   -1

12   13   14   15   16   17   18   19
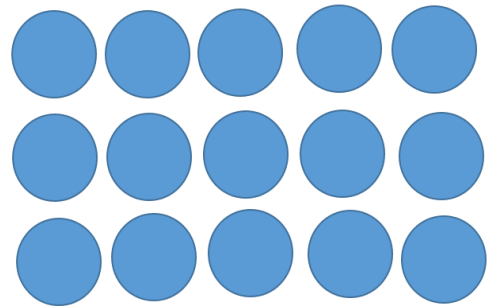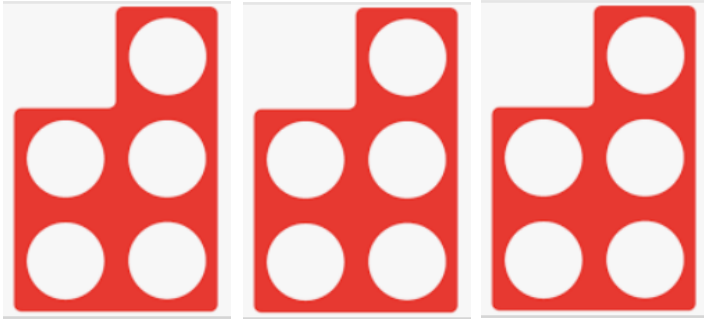
A number line

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Multiplication

$$12 \times 7 = 84$$
factor $\times$ factor = product

Example question: 3 x 5

Exploring 3 lots of 5

An Array

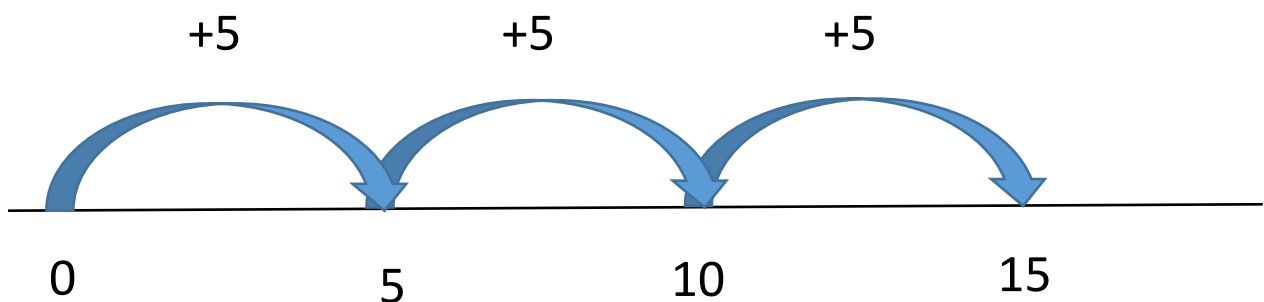Three equal groups of five

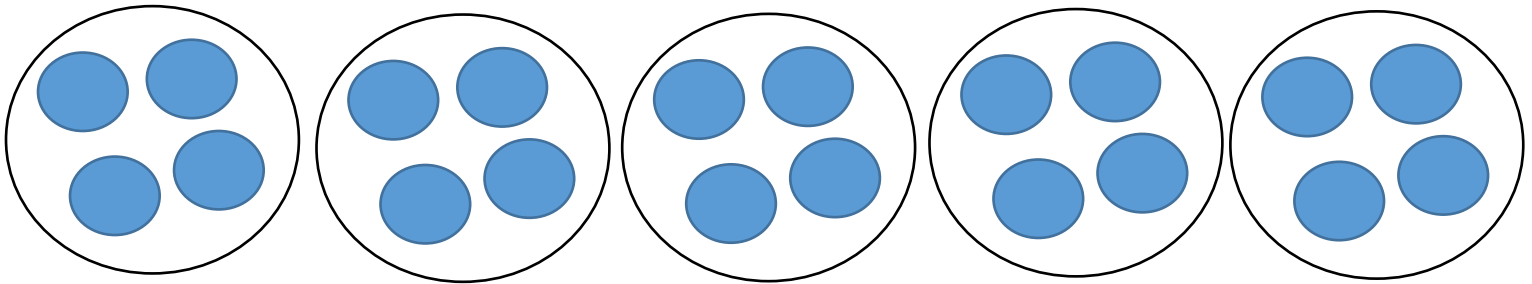| ?		
5	5	5

A bar model

+5   +5   +5

0   5   10   15

A number line

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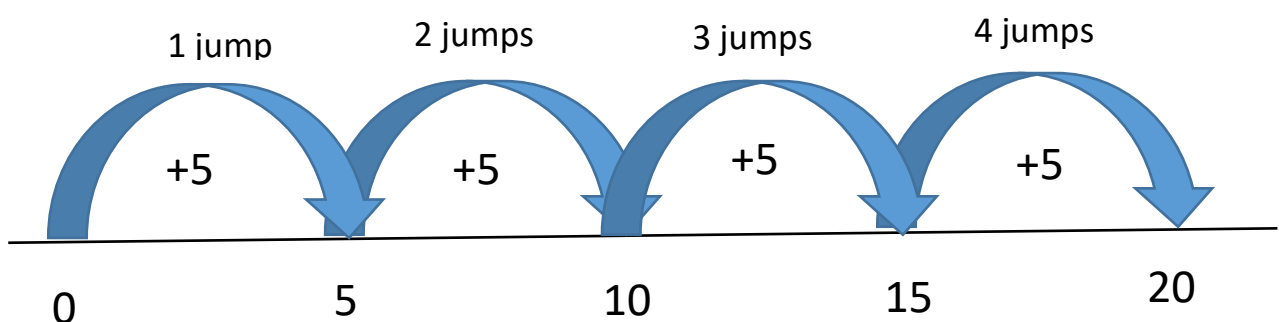
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Division

Example question: 20 ÷ 5

Sharing in equal groups: I have 20 counters and I have shared them equally between 5.
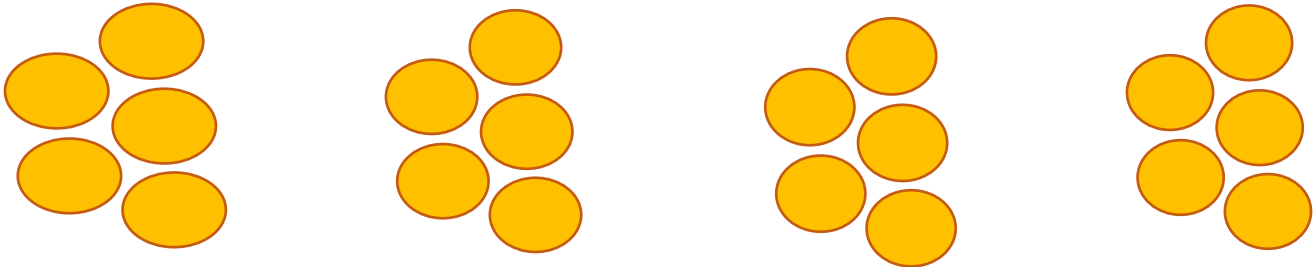
Grouping in equal groups: I have 20 counters and I have grouped them into groups of 5 counters. I have 4 equal groups of 5.

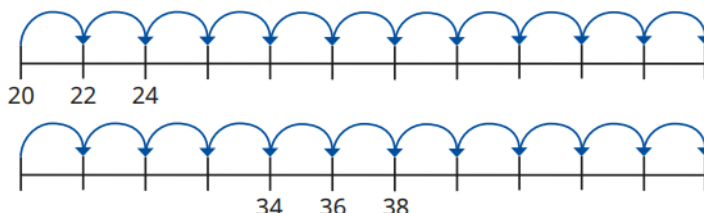| 20				
?	?	?	?	?

A bar model

1 jump	2 jumps	3 jumps	4 jumps
+5	+5	+5	+5

0   5   10   15   20

A number line

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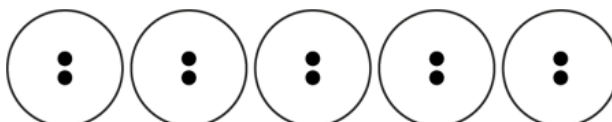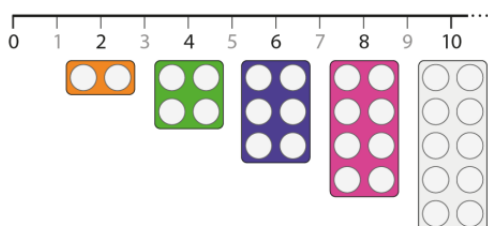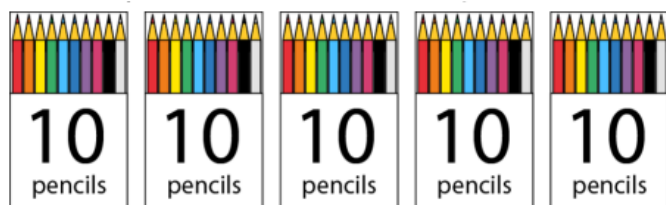
Times Tables

In Year One, we want the children to understand that we don't always have to count in ones. We can count in any equal amounts. This is the foundational skills for learning their times tables.

By the time children leave Year 1, children should be able to skip count fluently in 2s, 5s and 10s.
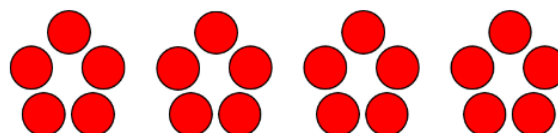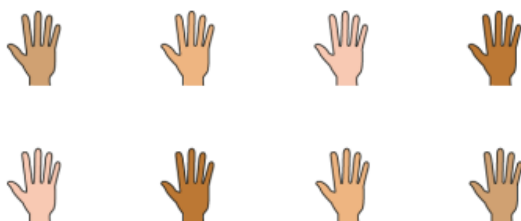
Skip counting in 2s:

| 20 | 22 | 24 |

| 34 | 36 | 38 |

Skip counting in 10s:

| 10 pencils | 10 pencils | 10 pencils | 10 pencils | 10 pencils |

| 0cm | 10cm | 20cm | 30cm | 40cm | 50cm | 60cm | 70cm | 80cm | 90cm | 100cm |

| 0 | 10 | 20 | 30 | 40 | 50 |

Skip counting in 5s

| 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |

| 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |

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