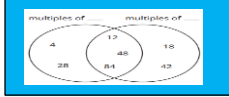# Mathematics Progression– Addition & subtraction

Year 6

Problems:
Solve addition & subtraction multi-step problems in context, deciding which operations and methods to use and why.

Calculations:
Use knowledge of the order of operations to carry out calculations involving the four operations.

multiples of   multiples of

Problems:
Sole addition & subtraction multi=step problems in contexts, deciding which operation and methods to use and why.

Year 5

Calculations:
Add & subtract numbers mentally with increasingly large numbers.

Calculations:
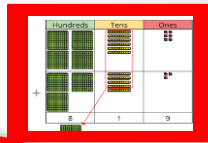Add & subtract whole numbers with more than 4 digits, including formal written columnar methods.

Problems:
Solve problems involving addition, subtraction, multiplication & division & a combination of these, including understanding the meaning of the equals sign.

Calculations:
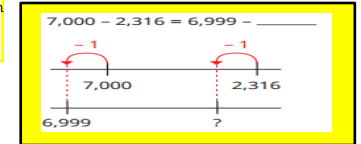Perform mental calculations, including with mixed operations and large numbers.

$7,000 - 2,316 = 6,999 - \_\_\_\_$

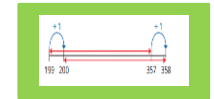**. Calculations:**
Add & subtract numbers with up to three digits, using formal written columnar methods.

Year 4

Calculations:
Add & subtract numbers with up to 4 digits using the formal columnar written methods.

Problems:
Solve problems, includes missing number problems, using facts, place value, and more complex calculations.

Year 3

Problems:
Solve addition & subtraction two-step problems in contexts deciding which operations & methods to use and why.-

$6 - 3 = \_\_\_$
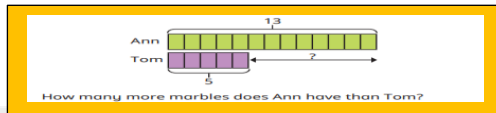$5 - 2 = \_\_\_$
$4 - 1 = \_\_\_$

Calculations:
Add & subtract numbers mentally.

Including:
. a three-digit number & ones
. a three-digit number & tens
. a three-digit number & hundreds

$9 + 9 = 10 + ☆$
☆ $+$ ☆ $=$ △
$27 +$ △ $=$ ⬭
▭ $+$ ⬭ $= 87$

13
Ann
Tom
How many more marbles does Ann have than Tom?

Problems:
Solve problems with addition & subtraction:
. using concrete objects & pictorial representations, including those involving numbers, quantities & measures.

Year 2

Problems:
Apply increasing knowledge of mental and written methods.

Year 1

EYFS

$32 + 17 = 35 + ▭$
$32 - 17 = 35 - ▭$

Calculations:
Add & subtract numbers using concrete objects, pictorial representations, and mentally.

Including:
. a two-digit number & ones
. a two- digit number & tens
. two two-digit numbers
. adding three one-digit numbers.

$6 - 2 = \_\_\_$
There are ____ ice creams that do not have flakes.

Problems:
Solve one-step problems that involve addition & subtraction using concrete objects and pictorial representations & missing number problems such as $7 = ▭ - 9$.

Calculations:
Add & subtract one-digit and two-digit numbers to 20, including zero.

Subitising:
Recognise small quantities- match & compare.

Comparing & Ordering:
Notice which set has more, which has fewer & when two sets have the same amount.

Sorting & matching:
Notice similarities and differences matching & sorting objects in new contexts.