Use number sense

Rounding numbers to estimate 2467 + 1729 is approximately 2500 + 1700

Partition numbers 732 – 137 (by partitioning the second number and counting back; -100, -32, -5)

Find the difference rather than subtract

607 – 288 (by counting **up** from 288, bridging the hundreds boundary; +12, +400, +7)

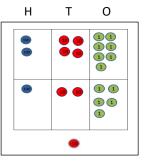
Calculate and adjust 1487 – 199 (by subtracting 200 and adding 1)

Check using inverse operations check 564 - 150 = 414 with 414 + 150 = 564

Representations to support addition

We can use equipment to find the total of two numbers to ensure understanding. This builds into the compact written method for addition.

$$247 + 125$$



30 and 15

15 - 6 = 9

Prove it!

Addition and subtraction are the inverse (opposite) of each other

45 - 26

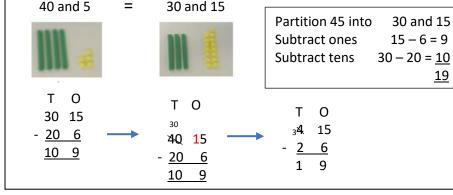
Year 4 Addition and Subtraction

Measures Problem

The perimeter of a rectangle is 40cm. What could the sides measure? Are there different solutions?

Representations to support subtraction

We can use equipment to find the difference between two numbers. This builds into the compact written method for subtraction.



Use the correct vocabulary

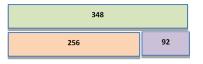
partition, recombine, calculate, plus, add, total, increase, sum, altogether, how much /many more? decrease, minus, subtract, take away, less, fewer, difference, partition, exchange, adjust

Real life problems

Joe has 257 football stickers and Ayush has 365. How many stickers do they have altogether?

Check your answer by using the inverse calculation.

Understand the inverse relationship between addition and subtraction.



Continue to understand the inverse relationship between addition and subtraction, including with missing numbers

Recognise that **256 + 92** is equal to **92 + 256** Addition is commutative (order doesn't matter)

Recognise that subtraction is not commutative (order affects the calculation) 348 - 92 is not equal to 92 - 348

Understand that missing number problems can often be solved by working backwards by using the inverse operation

$$456 + \square = 673 \square = 300 + 176 \square + \square = 125$$

 $1000 - 103 = 450 + \square$ $450 < \square + 60$

Investigate Always, sometimes, never true

A four-digit number plus a 4-digit number equals a four digit number

The sum of 3 odd numbers is even.