Use known facts

What's the same and what's different?

Known facts and place value

282 + 7

I know that 2 + 7 = 9So 282 + 7 = 289

Adjust

234 + 99 - add 100 then subtract 1 367 - 39 - subtract 40 then

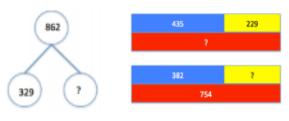
Estimate

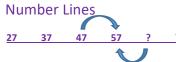
141 + 58 is approximately 140 + 60

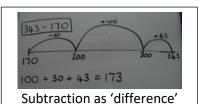
Representations to support addition and subtraction

These structures show the relationship between addition and subtraction.

Part-Part Whole Model Bar Model







Fluency

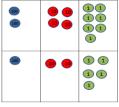
Add three numbers to total 247

Year 3 Addition and Subtraction

Money Problems

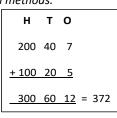
Shivam buys 2 pencils that cost 29p each. How much change will he get from £1?

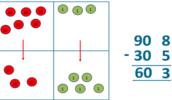
We can use equipment to find the total of 2 numbers. This supports the conceptual understanding before moving to formal methods.



leading to

add 1





Equipment can also support subtraction.

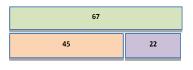
Use the correct vocabulary

plus, add, total, increase, amount, sum, addition, minus, subtract, take away, less difference, decrease, partition, round, calculate, inverse, operation, exchange

Problems with more than one solution

3 monkeys ate 22 bananas. Each of them ate a different number. How many bananas did they each eat? Find as many solutions as you can.

Understand the inverse relationship between addition and subtraction.



$$45 + 22 = 67$$
 $22 + 45 = 67$
 $67 = 45 + \square$ $\square = 22 + 45$

$$67 - 22 = 45$$
 $67 - \square = 22$

Carl says 'If I add two numbers together I can check my answer by taking them away afterwards. So to check 123 + 14, I can do 14 -123. 'Is he right? Explain your answer.

Know pairs of numbers that total 100 and derived subtraction facts

$$100 = 74 + \square$$
 $43 + \square = 100$
 $100 - \square = 26$ $100 - \square = 57$

Investigate - True or False?

2 odd numbers add up to make an even number.

3 odd numbers add up to make an even number.

Investigate

How many different rectangles can you draw with a perimeter of 20cm?