

# **Maths at Mersey Park Key Stage Two**



#### **Part Whole Models**

We use part whole models to help us with our additions and subtractions. We use them to show the different parts of a number and how we can split it up to help us solve a calculation.



215 = 200 + 10 + 5







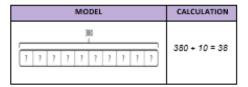




235 = 100 + 130 + 5 235 - 60 = 100 + 70 + 5 = 175

#### **Bar Models**

We use bar models to help us solve addition and subtraction but also multiplication and division. We make sure the parts of the bar are the correct size to represent our number. Bar models help us when calculating using whole numbers or fractions and decimals.



MODEL	CALCULATION
	$1 \div 3 = \frac{1}{3}$

	MODEL		C	CALCULATION			N
				Th	н	т	0
$\overline{}$		$\overline{}$			7	q	q
$\Box$	1,373				5	7	4
	799	574		Т	3	7	3

	МО	DEL	CALCULATION
_		tol 162	5762 - 2899 =
Ċ	?	2,899	
	Yes votes	No votes	

### **Place Value Grid**

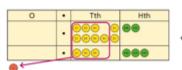
We use place value grids to help us understand the value of a digit and then they help us add or subtract those digits.

Use equipment to show 1,905 + 775.

Th	Н	Т	0
•	00000		00000
	00000	00000 00	00000

Th	Н	Т	0
<b>00000</b>	00000	<u> </u>	00000

- 243 = 2

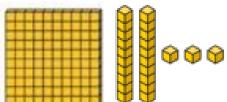


Tth	Hth	2,502
q	2	27
3	3	Th



Th	H	T	0
00	0000	9000	00000 00000

## **Concrete Manipulatives**



**Dienes** 





**Double Sided Counters**