

Year 4

## **Knowledge Organiser**

Number



## **Multiplication & Division**

In Year 4, we continue to use and build on our knowledge of multiplication and division facts. Knowing these facts will help us with lots of maths in the future, including fractions, percentages and ratio in Year 6! We are learning how to use a formal written method for multiplication. This will help us in the future to multiply amounts of money.

Builds from Year 3:	This year:	Leads to Year 5:			
Multiplication and division facts for the 3,	Multiplication and division facts for	Mental multiplication and division strategies with			
4 and 8 multiplication tables. Grid method for multiplication.	Mental multiplication and division.	Multiples factors and prime numbers.			
Dividing 2-digit numbers.	Factor pairs.	Square and cube numbers.			
Calculate mathematical statements for	Formal written methods for multiplication.	multiplication.			
multiplication and division.		Interpret remainders appropriately.			

## **Multiplication Methods**

Th	Н	Т	0		Th	н	т
	5	4	3				
×			4			5	4
		1	2	(4 × 3)	×		
	1	6	0	(4 × 40)	2	1	7
2	0	0	0	(4 × 500)		1	1
	1	7	2			T	1

Factor Pairs	x and ÷ by 0 and 1							
<b>Factor pairs</b> are a pair of numbers multiplied together to form another number called their <b>product</b> .	5 x 1 = 5							
Factors of 48 1 x 48   1, 2, 3, 4, 6, 8, 2 x 24   12, 16, 24, 48 3 x 16   4 x 12 6 x 8	$5 \div 1 = 5$ Multiplying any number by zero will give you an answer of zero. $5 \times 0 = 0$							
Key Vocabulary								
multiply groups of lots of times divide share column method	remainder factor factor pair multiple product commutativity							