

# Year 4 Maths - Spring Term 1 - Multiplication and Division B



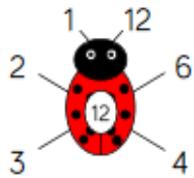
Previously learned vocabulary	
multiple (s)	commutative
multiplication	division
times tables	remainder
New Vocabulary	
operation	factor
factor pairs	distributive
associative	derive
remainder	

## Factor pairs and commutativity

20

5 x 4 = 20  
4 x 5 = 20

The factors of 20 are 1, 2, 4, 5, 10 and 20.  
The factor pairs are:  
1 and 20   2 and 10   4 and 5



## Solve problems involving multiplying and adding including using the distributive law

$(2 \times 3) \times 4 = 24$     $(2 \times 4) \times 3 = 24$

10 pencils    $10 \times 4 = 40$  pencils

75g    $75g \times 2 = 150g$

$16 \times 3$   
 $10 \times 3$     $6 \times 3$   
 $30 + 18 = 48$

## Written methods of multiplication

$123 \times 5$

	H	T	O
		3	4
x			5
	1	7	0
	1	2	

$500$   
 $+ 100$   
 $+ 15$   

---

 $615$

## Written methods of division

	1	5
3	4	15

	2	1
4	8	4

$45 \div 3$     $84 \div 4$

$30 \div 3$     $15 \div 3$     $80 \div 4$     $4 \div 4$

## Multiplying and dividing by 10 & 100

Th	H	T	O
Thousands	Hundreds	Tens	ones
			1
		1	0
	1	0	0

$\times 10$   
 $\times 100$

Th	H	T	O
Thousands	Hundreds	Tens	ones
	1	0	0
		1	0
			1

$\div 10$   
 $\div 100$

## Multiplication and division facts up to $12 \times 12$

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

## Use place value to multiply and divide mentally

$5 \times 1 = 5$   
 $5 \div 1 = 5$

$5 \times 10 = 50$   
 $50 \div 10 = 5$

$5 \times 100 = 500$   
 $500 \div 100 = 5$

## Use place value, known and derived facts to multiply mentally

Thousands Th	Hundreds H	Tens T	Ones O