

Year 4 – Maths – Multiplication and Division

Key vocabulary

multiply

groups of

lots of

times

divide

share

remainder

factor

multiple

product

Multiplication and division facts

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

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

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

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

Links to other learning

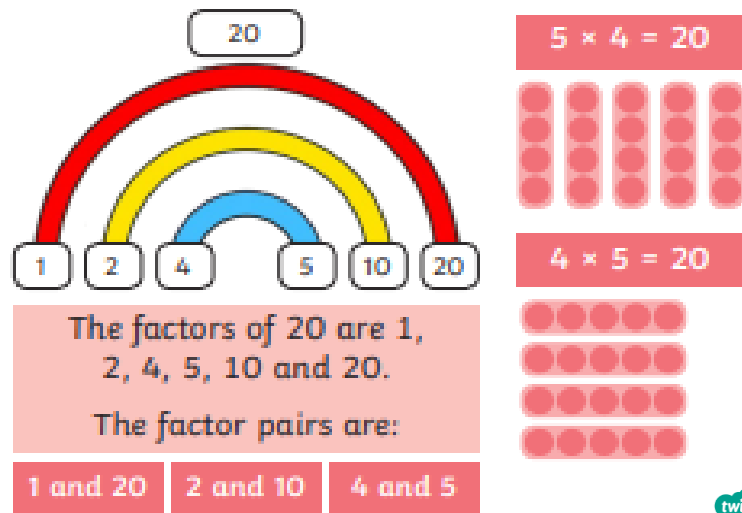
Year 3 - Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables; Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods; Solve problems, including missing number problems.

Year 5 - Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers; Know and use the vocabulary of prime numbers, prime factors and composite numbers; Establish whether a number up to 100 is prime and recall prime numbers up to 19; Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers; Multiply and divide numbers mentally, drawing upon known facts; Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context; Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000; Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).



Year 4 – Maths – Multiplication and Division

Factor pairs and commutativity



Multiply using formal written methods

Th	H	T	O
	5	4	3
×			4
		1	2
	1	6	0
2	0	0	0
2	1	7	2

(4 × 3)
(4 × 40)
(4 × 500)

Th	H	T	O
	5	4	3
×			4
2	1	7	2
	1	1	

Remember to move any regrouped numbers into the next column. After the next multiplication, add the regrouped number to the answer.



Short division with exact answers



There are 69 tennis balls packed in tubes of 3.

There are 23 tubes altogether.

$$69 \div 3 = 23$$

$$\begin{array}{r} 23 \\ 3 \overline{) 69} \end{array}$$

69		
23	23	23



Key questions

What is 7×9 ?

What is 56 divided by 8?

Multiply 6 by 100.

Divide 840 by 10.

Find the factors of 36.