Multiplication and Division

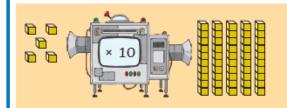
Knowledge Organiser

Key Vocabulary						
multiply						
groups of						
lots of						
times						
divide						
share						
remainder						
factor						
multiple						
product						
twinkl visit twinkl.com						

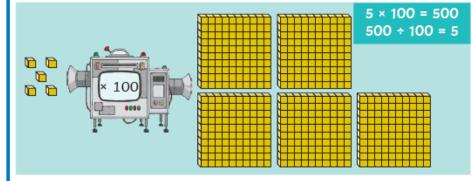
ı	Mult	ipli	cati	on a	nd I	Divi	sion	Fac	cts				
	х	1	2	3	4	5	6	7	8	9	10	11	12
4	1	1	2	3	4	5	6	7	8	9	10	11	12
	2	2	4	6	8	10	12	14	16	18	20	22	24
4	3	3	6	9	12	15	18	21	24	27	30	33	36
	4	4	8	12	16	20	24	28	32	36	40	44	48
4	5	5	10	15	20	25	30	35	40	45	50	55	60
	6	6	12	18	24	30	36	42	48	54	60	66	72
4	7	7	14	21	28	35	42	49	56	63	70	77	84
	8	8	16	24	32	40	48	56	64	72	80	88	96
4	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
4	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

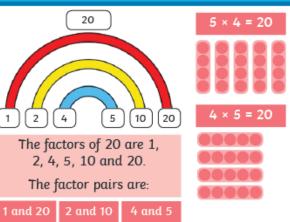
 $5 \times 1 = 5$ $5 \div 1 = 5$



 $5 \times 10 = 50$



Factor pairs and Commutativity



Multiply Using Formal Written Methods

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

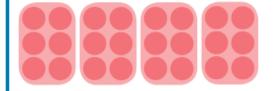
Th H 0 X 2

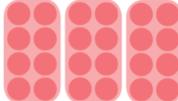
Remember to move any regrouped numbers into the next column. After the next multiplication, add the regrouped number to the answer.

Mental Calculations for Solving Problems

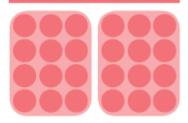
$(2 \times 3) \times 4 = 24$

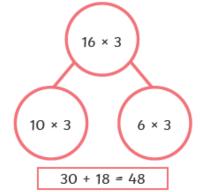
$$(2 \times 4) \times 3 = 24$$









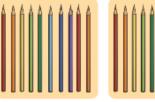


Integer Scaling Problems

10 pencils







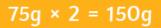






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Short Division with Exact Answers

There are 69 tennis balls packed in tubes of 3.

There are 23 tubes altogether.



$$69 \div 3 = 23$$

69					
23	23	23			

