

Maths - Year 5

Calculating 4: Developing fluency with multiplying and dividing

Key Vocabulary		Mathematical Skills
Product	The result of multiplying two or more numbers together.	<ul style="list-style-type: none"> - Explain that the commutative property of multiplying reduces the number of facts they have to learn. - Recognise patterns in multiplication tables and use these to make general rules for tables they are learning. - Develop fluency with a growing number of multiplying facts. - Have strategies to work out multiplication facts they cannot yet recall. - Recognise when to use their knowledge of times tables facts, factors and multiples to solve problems. - Use knowledge of multiples and related dividing facts to identify common factors. - Use knowledge of factors to work out missing numbers in multiplying calculations.
Divisor	The number you are dividing by.	
Quotient	The result of dividing one number by another.	
Commutative property	When adding or multiplying 2 numbers, the answer will be the same no matter which order the numbers are in .	
Multiple	The product of two whole numbers.	
Factor	A number that divides into another number exactly.	

Mathematical Methods

- Revising multiplication facts.

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

- Using multiplying facts e.g. exploring factors of 12.



- Solving problems with multiplying and dividing facts e.g. exploring factor relationships.

- Using factors to solve empty box balancing problems involving multiplying e.g. x x 5 = 42 x 5.

- Revising the short written method of multiplying and dividing.

	2	2	3	
x			4	
	8	9	2	

	1	2	3	rl
4)	4	9	3

- Revising finding fractions of amounts using multiplying and dividing facts e.g. Finding $\frac{1}{4}$ and $\frac{1}{9}$ of 36.



